



Belgian budget may miss deficit target

By Neil Buckley in Brussels
Belgium is unlikely to be able to reduce its budget deficit to 3 per cent of GDP this year...

Santer calls leaders to account

Lionel Barber on why the EU president wants to put a stop to a list of broken promises

There has always been a "now they say it, now they don't" quality to European summit declarations... Mr Jacques Santer, the European Commission president...



Santer: behind his action yesterday lies his determination to reallocate resources inside the EU budget

Mr Erkki Liikanen, the EU budget commissioner, made an additional point yesterday. The Commission needs to clear its books in time for the broader debate over budget priorities...

EUROPEAN NEWS DIGEST

Italian telecom tariffs cut

Telecom Italia, Italy's domestic telephone company, yesterday surprised consumers, shareholders and the telecoms ministry...

New TV deal on soccer in Italy

Mr Vittorio Cecchi Gori, the Italian film producer and owner of two small television channels, yesterday relinquished his rights to transmit Italian league football for the next three years...

Brussels starts EU-wide taxation talks

A government austerity programme, including a three-year wage freeze and cuts in health and social spending, has already provoked sporadic strikes and demonstrations among public sector workers...

Juppé acts on end to call-up

Prime Minister Alain Juppé yesterday called on the French parliament to back the government's "historic" decision to phase out a century of military conscription...

Backing on Airbus status

Aérospatiale, the French partner in the Airbus consortium, yesterday welcomed the German government's call for Airbus to incorporate itself into a regular company...

US pledge to Nato hopeful

The US yesterday renewed its commitment to eastward expansion of Nato, promising aspiring members from central and eastern Europe that the alliance "must not and will not keep new democracies in the waiting room forever"...

Madrid told to repay Pta85bn

The Spanish government has been given two months to repay Pta85bn (€448m) to the Airtel consortium, which operates Spain's second mobile phone network...

German M3 rises strongly

German M3 money supply rose by an annualised rate of 12.6 per cent in February, according to the Bundesbank...

Belarus leader sacks editor

President Alexander Lukashenko's battle with the local Belarus media has taken a new turn with the sacking of Mr Nikolai Galitskiy, editor of Narodny Gazeta...

Greece and Albania bury hatchet

President Costis Stefanopoulos of Greece flies to Tirana today to sign a friendship pact with President Sali Berisha of Albania...

Aznar party shifts stance on Spain's regional policy

Spain's centre-right Popular party, trying to muster a parliamentary majority after its narrow election victory earlier this month, yesterday launched a fresh phase of negotiations with regionalist parties based on an adapted set of policy proposals...

Rexrodt stands by jobs alliance with unions

The German government yesterday reaffirmed its support for the trade unions' inspired "alliance for jobs" after a leading employers' representative declared that the concept as first developed by the powerful IG Metall union was "dead"...

# Brussels digs for evidence of heating pipe cartel

## William Lewis and Hugh Carnegie report on how ABB of Sweden and other companies are suspected of carving up a large portion of the European market

Mr Walter Hens is now a man to watch. When the owner of Isopus, a German-based maker of district heating pipes, heard in late October 1994 that Powerpipe, a Swedish competitor, had won a big district heating contract in the east German city of Neu Brandenburg, he quickly made an "offer" to his Swedish competitor.

important contracts in Germany, established a subsidiary in Poland, moved into other east European markets and even won contracts in China. The growing strength of Powerpipe in Sweden, with a market share of more than 30 per cent, has become a cartel victim. But allegations have been made that members of the suspected cartel systematically attempted to squeeze Powerpipe out of key markets and have attempted to discredit Powerpipe within the district heating market.

Give up the Neu Brandenburg contract, collect DM50,000 (€34,000) in compensation and join the cartel operating in the district heating business. If Powerpipe refused, and continued to offend cartel members for contracts, it would never be talked to again.

A former Powerpipe chief executive was poached by ABB in 1989 and placed in an executive position under Mr Kaare Wagner, the ABB senior executive manager formerly responsible for district heating operations. Other senior employees were lured away to work for other suspected cartel members.

The incident is just one case in a large dossier of evidence now being sifted through by the European Commission. It is examining the operation of a suspected tightly knit cartel within the district heating pipe manufacturing industry, which has a total annual turnover in Europe of about \$1bn. The evidence has been gathered chiefly in a series of raids carried out by Commission officials last June.

The investigators believe that suspected cartel members subjected Powerpipe to reprisals after the award of a contract in Leipzig-Lippendorf in March 1985, just months after the Swedish company had won the contract in Neu Brandenburg.

Organised price fixing, deals to carve up market share and intimidation are all methods which Brussels suspects have regularly been used to enforce - or attempt to enforce - the cartel in a number of European countries including Denmark, Austria, the Netherlands, Sweden, several east European states and, most notably in the past two years, Germany.

Powerpipe at first decided not to bid for the Leipzig-Lippendorf contract because of its size. The initial contract - part of a huge \$3bn energy complex project - was for DM2bn, the biggest of its kind in Europe for 10 years and larger than Powerpipe believed it could finance and supply. But Viag, the contractor, was angered by evidence that the cartel was attempting to fix the deal.

Six companies are suspected of being members of the cartel: ABB, which was recently awarded the title of "Europe's most respected company" in a survey of top executives, three Danish companies, Logstor, Tarco and Starpipe, and two German-based companies, Panlovik and Isopus, which has a factory in Austria.

# Suspicion falls on 'most respected company'

The suspected involvement of ABB, the Swedish-Swiss engineering multinational, in a Europe-wide district heating cartel does not fit easily with the company's reputation for excellence, write William Lewis and Hugh Carnegie.

In September, ABB was judged in a survey of 1,000 senior executives in 18 European countries to be Europe's most respected company for the second year in succession.

innovation. Mr Percy Barnevik, the Swedish chief executive, is one of Europe's most high profile managers. The group was formed by the 50-50 merger in January 1988 of Sweden's Asea and Switzerland's Brown Boveri, both marginal operators - in global terms - in the electrical engineering business.

Asea is controlled by Sweden's Wallenberg family, one of Europe's most powerful industrial dynasties, which has a controlling interest in companies such as Astra, Ericsson, Electrolux, Saab and Scania. In its first year, ABB had sales of \$17.8bn and net income of \$386m.

Today, it is one of the top international competitors in this field, alongside General Electric of the US and Siemens of Germany. In February it announced a 75 per cent increase in net profits for 1995 to \$1.82bn on sales of \$3.73bn.

By Mr Armin Meyer, an executive vice-president and a member of the group executive committee. ABB said yesterday that Mr Meyer last year took over responsibility for district heating from Mr Kaare Wagner, another executive vice-president.

ABB's district heating operation in Sweden but ABB said yesterday that he was now working elsewhere within ABB.

# US driving Iranian regime into Russian arms

When Mr Ali Akbar Velayati, the Iranian foreign minister, toured the newly independent states of the Central Asia in 1991, alarm bells rang in both Washington and Moscow: fundamentalist Islam seemed to be marching north.

While Washington talks sanctions, Tehran is cementing ties with Moscow

Turkmenbashi refinery in Ashgabat. It will work alongside Merhav, an Israeli company. In Transcaucasia, Tehran enjoys close relations with Christian Armenia, providing its only relief from an Azeri blockade. As a result, Iran's ties with its fellow Shia Muslims in Azerbaijan remain prickly.

So far, Iran has apparently failed in its bid to assist Russia by "delivering" a more compromising stance by the Tajik rebels. But Russian officials still appear to be counting on the governments of both Tehran and Kabul to put religious loyalties aside and help Moscow stabilise the region.

Iran, by contrast, faces such a foreign exchange shortage that it needs Caspian drilling to go ahead as soon as possible. But all recent signals from both Moscow and Tehran have indicated that they see each as partners, not competitors.

The bill would require Mr Clinton to choose at least two out of five possible sanctions against any company that invested more than \$40m in Iran's oil industry or traded with Iran in oil-related goods.

The White House is nervous of sparking a trade war with its European allies, and will press Congress for maximum flexibility. But Congressional critics of Iran are confident of passing most of their proposals.

# Bank tries to plug looming water conflict

The Middle East and North Africa, and the world's water

Conflict over scarce water resources in the Middle East and North Africa can be avoided if governments reduce subsidies, promote more efficient irrigation and divert water away from low-value agriculture to cities and people, the World Bank says in a report on the region's looming crisis, published yesterday.

By Stephanie Gray

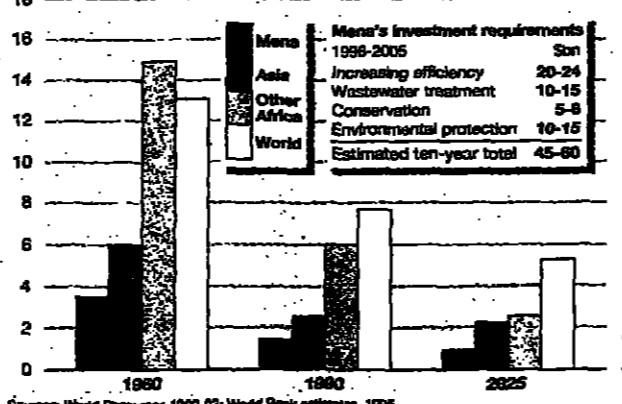
It says investment of between \$45bn and \$60bn over the next 10 years would increase water supplies by 50 per cent and avoid disputes which many fear could cause another war in the region.

The bank has proposed a conference early next year to include governments in the region, the European Union, the African Development Bank, and Arab funds and bilateral donors.

Most of the investment would come from the countries themselves, through user charges. Donors would contribute about 25 per cent.

One of the worst examples of the water crisis is Gaza where each Palestinian has access to less than 15 gallons a day, compared with 800 gallons for each American. If no action is taken each Palestinian may have less

than eight gallons a day within 30 years, the report says.



targets poor maintenance, inappropriate technology and weak technical and financial management. Local, national and international initiatives had so far shown few benefits because "national institutions do not work together, plans and programmes are often duplicated and sometimes contradictory, donor involvement is fragmented and unfocused and heavily subsidised water provides little incentive for conservation."

THE FINANCIAL TIMES

# Disaster claims 'could double'

Claims borne by the world's insurance companies from large-scale natural disasters could double by the end of the decade, according to forecasts yesterday by Munich Re, the world's largest reinsurance group.

Losses covered by insurance policies last year were relatively low - largely because much of the damage in Kobe was uninsured. But Munich Re comments: "The earthquake in Kobe cast as stark light on the vulnerability of modern cities to the powers of nature. The loss potential of similar events in conurbations like Osaka, Tokyo, and Los Angeles is many times higher... Overall economic losses in Tokyo could be as high as \$3,300bn."

Sander Thoenes, Afshin Molavi and Robin Allen

# Nigeria ousts disgraced bankers

The Central Bank of Nigeria has removed 178 bank directors and barred 75 others from such posts in a clean-up of fraud which has left more than half of Nigeria's 115 banks insolvent.

The main cause of the collapse of the banks is theft or fraud by senior staff, directors and shareholders. Rampant fraud followed the vast increase in the number of banks and finance houses after partial deregulation in 1988.

# Bomber kills Israeli soldier

A suicide bomber killed one Israeli soldier and wounded five others in south Lebanon yesterday, only hours after Mr Shimon Peres, Israeli prime minister, said Israel would practise restraint there if not provoked by Islamist guerrillas.

The bombing has fueled speculation that a big Israeli strike is imminent. Israelis and Lebanese had been expecting an operation this week in response to both the Hizbollah attacks and recent suicide bombings inside Israel.



# Storm over video disc launch date

By Alice Rawsthorn

The electronics and entertainment industries are at loggerheads over delays in Hollywood's plans to launch movie software for the new generation of digital video disc (DVD) systems.

Electronics companies hope the new DVD entertainment systems will be used for watching high quality films and listening to music, and will revitalise the sluggish market for the audio CD and video cassettes that did in the 1980s.

However, the success of the new system will depend on the availability of entertainment software, chiefly films, which will not only achieve superior visual quality to video cassettes but will also offer higher quality sound than audio CDs.

The Hollywood film studios were initially enthusiastic about the prospects for the new discs. They hope that DVD will create a lucrative new software market as the difference in quality may persuade consumers to buy their favourite films on discs, rather than renting them on video.

But some electronics companies are now concerned that the Hollywood studios may not release enough films on DVD in time for the proposed launch of the players this autumn.

Mr Jan Oosterveld, president of the key modules division of Philips, the Dutch consumer electronics company, said the studios were sending out "confusing signals" about the number of films they were willing to put out on DVD and the timing of the releases.

Similarly, the studios are asking for DVD players and software to be produced in different parts of the world, making it impossible for consumers to play a disc manufactured for one region, such as the US, in another region.

This system would suit the current Hollywood release schedule whereby the studios stagger the introduction of films on video in different parts of the world, usually starting in the US and then moving through Asia to Europe. It would also help them maintain price differentials in different markets.

Mr Oosterveld said Philips was opposed to a regional coding system as it would cause "total turmoil" in the marketplace. "We have a single standard for audio CDs worldwide, so why not DVD?" he said. "If I buy a book in New York, I expect to be able to read it in London."

At present Philips still hopes to launch its first DVD entertainment systems in the US by early 1997, but Mr Oosterveld said the company would need to be sure that the entertainment software issues had been resolved before it took a decision on the launch date.

Sony and Matsushita yesterday confirmed they will launch their models this year, starting in Japan.

because each has its own series of pipelines, machinery and storage elements, will cost some \$4bn.

The output will go to Chubu Electric Power Company, with seven Japanese power utilities taking the 2m tpa third train starting in 1998.

Pricing, according to officials, is "based on a blend of rates averaging 1 per cent over Libor" (London Interbank Offered Rate).

Developing Qatargas and Rasgas will cost the government some \$10bn. Industry sources say that "even with regular re-working of the cash projections, the net pay-back time for the government will not come until 2004".

Qatari officials are, however, looking on the bright side.

# Qatar finally catches the train as gas exporter

The Gulf state is poised to be a leading Middle East supplier, writes Robin Allen

Twenty five years after the discovery of the North Field, possibly the world's largest single reservoir of natural gas, the Gulf oil state of Qatar is poised to become one of the Middle East's leading gas exporters.

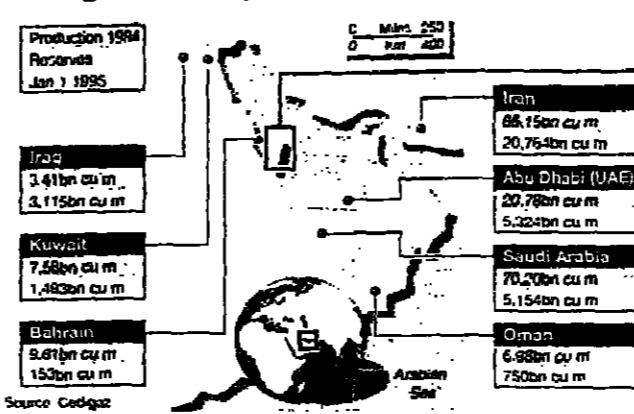
Barring further delays, Qatar Liquefied Gas Company (Qatargas) will become operational next October and make its first shipments of liquefied natural gas (LNG) to Japan next January 1. It is a joint venture owned 65 per cent by Qatar General Petroleum Corporation (QGPC) and 10 per cent each by Mobil of the US and France's Total, with Japanese trading houses Marubeni and Mitsui holding 7.5 per cent each.

Qatar's refusal to provide a sovereign guarantee for international bank and European export credit agency financing has meant long delays in finalising a \$700m loan for the upstream work. Officials hope agreement will be reached by the end of this month.

The entire Qatargas project - upstream, liquefaction and shipping - comprising three "trains" of 2m tonnes per year (tpa) of LNG each, will cost \$6bn-\$7bn including construction of the tankers.

The first two trains, so called

## Gulf gas: Qatar joins the big league



Source: CodaGas

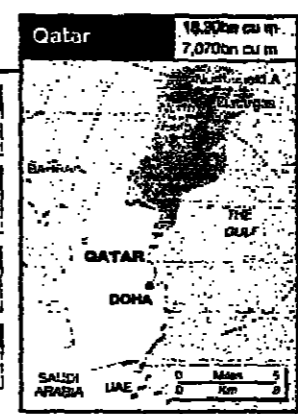
stream loan was made in mid-February. Repayment of three tranches in 17 semi-annual instalments starts on August 1 1999.

Qatargas is the most advanced of two active gas export projects. The second is the \$4bn Ras Laffan Liquefied Natural Gas Company (Rasgas), a 70/30 joint venture between QGPC and Mobil.

South Korea has signed up for one 2.6m tpa train, but Rasgas

needs at least one more buyer for the second 2.6m tpa train to make it viable. South Korea, Turkey, Thailand and Taiwan have all been approached.

By contrast, Abu Dhabi has beaten Qatar in selling gas to Europe as well as to Japan. As early as 1977, Abu Dhabi was using its own funds to develop and LNG to Japan while around the same time Saudi Arabia was investing billions of dollars in its Master Gas System. Both states were exploiting their gas reserves



long before Qatar had accepted it could not survive for ever on oil revenues.

Qatar is fortunate in that, unlike its neighbours, it has a small population, some 530,000, and small domestic gas needs relative to its reserves. This allows for the growing demand for gas as feedstock and power at the country's industrial zone in Umm Salal.

Both Abu Dhabi and Saudi Arabia, on the other hand, are hindered from making natural gas exports on the scale of Qatar's by their rising domestic needs. Lack of investment funds and limited gas reserves keep them in the second division of potential gas exporters.

However, Oman is emerging as a more significant LNG exporter after signing long-term supply contracts with Asian power utilities.

Oman LNG Company, a joint venture between Oman and several foreign oil companies, has recently reached agreements with South Korean and Thai companies for the supply of up to 5m tonnes a year of Omani LNG.

The deals are the green light for a \$6bn gas project which is set to add 20 per cent to the country's \$5bn a year export earnings from its sizeable, but ageing, oilfields.

## WORLD TRADE NEWS DIGEST

### Tirana airport finance agreed

Germany is to finance the DM50m (\$33.7m) modernisation of Albania's only international airport, the antiquated Rinas airport at Tirana.

The financing agreement for one of the most significant development projects in Albania since the collapse of communism five years ago, was signed yesterday by Mr Carl-Dieter Spranger, German minister for economic co-operation and development.

The project has been delayed for more than two years by Albania's unwillingness to accept the terms for commercial project finance negotiated with a consortium comprising Berliner Bank, Kreditanstalt für Wiederaufbau, the German state-owned development bank, and Hermes, the German export credit agency.

The offer of development aid follows a visit late last year to Bonn by Albanian President Sali Berisha. Albania is to receive a 40-year loan with an interest rate of 0.75 per cent.

The airport contract was awarded over two years ago to a consortium led by Siemens, the German electrical engineering group. Civil engineering work will be carried out by Walter Bau, the second largest German construction group.

Siemens said yesterday that work would begin immediately on renovating the runways and aprons. Airfield lighting and navigation systems will be installed to meet international safety standards. There will also be new meteorological equipment as well as communications and power supply systems.

Air traffic to Tirana has increased rapidly, but the facilities at Rinas are inadequate to cope with the influx of new airlines and rising passenger numbers, which have jumped from 30,000 in 1990 to around 200,000 last year.

The existing airport was built to a Russian design in 1957. *Kevin Done, East Europe Correspondent*

### Chinese seek turbine bids

China is to invite bids from foreign companies for 26 turbine generators with a capacity of 700MW for the Three Gorges dam project. A tender for the first 12 generators is to be held in the second quarter of the year, but no bid dates have been announced for the remaining 14.

According to Xinhua news agency, more than 10 companies including South Korean, Japanese, Russian, German and US groups have expressed interest. The generators are expected to go into operation in 2003.

Construction of the world's biggest dam, costing 146.8bn yuan (\$17.7bn) from 1993 to 2003, officially began in December 1993. *Tony Walker, Beijing*

### China tops dispute league

China had more trade and investment disputes between its companies and foreigners than any other country in 1995 because of its poor legal system and ineffective government supervision, Shanghai's Business News reported yesterday.

The China International Economic and Trade Arbitration Commission handled 402 disputes involving 45 countries last year, more than any other arbitration body in the world, the newspaper said.

Zhu Jianlin, the commission's secretary general, said the 1995 figure compared with 823 disputes in 1994 and more than 400 in 1993. Some cases involved more than 100m yuan (\$12m) with the biggest worth 75.7bn (\$93.7m).

The Business News said there were disputes with Nigeria, Brazil and Israel for the first time. Zhu said disputes involving foreign trade accounted for 30 to 40 per cent of the total and disputes involving Sino-foreign joint ventures about 20 per cent. The rest concerned machinery imports, property securities and technology transfers. *Reuter, Shanghai*

### Open skies talks planned

Australia and New Zealand are to re-open negotiations on an "open skies" agreement. Plans for such an agreement were abruptly aborted in late-1994, when Australia unilaterally denied Air New Zealand the right to fly domestic Australian routes.

The Australian government cited disputes on customs and visa arrangements, but many observers believed that the real aim was to protect Qantas, the Australian airline, in the run-up to its privatisation.

Australia and New Zealand have had a free trade agreement for manufactured goods and most services since 1990, but progress on furthering this - through harmonisation of standards, customs procedures and other measures - has seemed to lose momentum in recent years. *Nikki Tate, Sydney*

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COMMENT & ANALYSIS

FINANCIAL TIMES

Number One Southwark Bridge, London SE1 9HL. Tel: +44 171-873 3000 Telex: 922186 Fax: +44 171-407 5700 Thursday March 21 1996

Mad cows and ministers

The latest twist in the UK's mad cow saga will devastate producers, upset consumers and embarrass the government. While the damage to producers will be substantial, the risks to consumers still seem minimal. But the government must not be complacent. Not only will it have to offer help to producers, it must also reconsider how best to commission, transmit and employ such politically sensitive scientific advice.

Nato's promises

Mr Warren Christopher, the US secretary of state, has made another attempt to square the circle by assuring the ex-communist nations of central Europe that they will in due course join Nato - while promising Russia that it must also have an important place in the European order.

Lines down

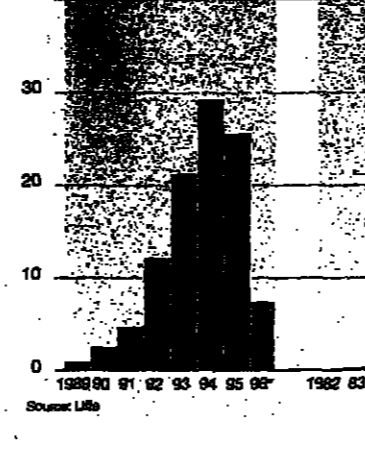
The simmering dispute between British Telecommunications and its regulator Ofcom will lead to a reference to the Monopolies and Mergers Commission this summer. That is the probable result of Ofcom's latest thoughts on curbing BT's prices, published yesterday.

W

hen Mr Jack Wigglesworth and a group of colleagues sought the support of the London Stock Exchange for a new financial futures market late in 1980, they were given the cold shoulder. After tea and cream cakes delivered by "pink-livered flunkies", Mr Wigglesworth, a blunt-speaking Yorkshireman, recalls: "They politely told us this was not the sort of activity we want in the City".



Euromark Short sterling Bund Long gilt



No longer the new kid

Europe's largest futures and options exchange is facing fresh challenges after 14 years of rapid growth, says Richard Lapper

Top 10 exchanges

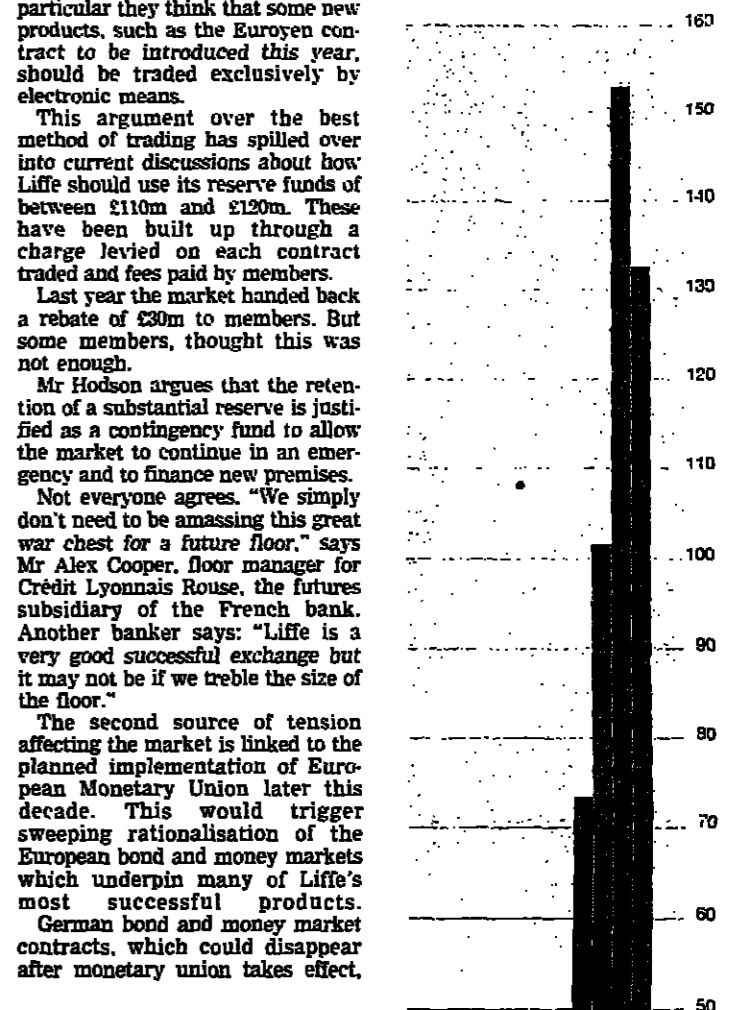
Table with 5 columns: Position, Exchange, 1995, 1994, Annual % change. Lists top 10 exchanges including Chicago Board of Trade, Chicago Mercantile Exchange, and London International Financial Futures Exchange.

Liffe is poised to make further strides in the next few months when new trading links with the giant Chicago Board of Trade and the Tokyo International Financial Futures Exchange are due to come on stream. The market's merger with the London Commodity Exchange, Europe's largest commodity futures market, is also set to come into effect later this year.

This year's buoyant volume figures indicate that growth is again picking up after a hiccup last year, when turnover declined by 13.3 per cent. The fall was partly in response to the Barings crisis, which led many firms to rein in their trading activities.

quarters at Cannon Bridge in 1991. But it is already taking steps to increase space for additional floor traders. These are needed to trade new contracts listed at the market in recent years, as well as to cope with the increased volume. Last year the market agreed to rent two floors of the Stock Exchange's headquarters, including the floor vacated by the exchange shortly after Big Bang in 1986.

Liffe futures and options



OBSERVER

Fruit for thought

Zesty Thai-cooking relies on the generous use of lemons, so when prices of the essential fruit shot up earlier this month to £140 (83 cents) from the usual £82, it injected a sour taste into the mouth of a government which is constantly banging on about the importance of controlling inflation.

Beefeater

Timing, as they say, is everything. Fly then Bill Cash, the voluble chief-leader-chief of the Eurosceptics, for choosing yesterday to launch his alternative 'blue paper' on bashing the Brussels institutions.

Right concept

Why did Dickson Poon, the Hong Kong-based boss of Dickson Concepts, pick James Capel as joint broker for the planned flotation of Harvey Nichols, his Knightsbridge store? Surely it could have nothing to do with the fact that he met his current wife, Pearl Yu, when she was working as an analyst at James Capel?

Skirted issue

So much for President Jacques Chirac's promises to reduce the extravagance of the French staff, not to mention all those resolves to

Beyond the pale

The Philippines has long been notorious for corruption, though things might be changing. Certainly President Fidel Ramos is proving mightily sensitive to hints of graft in his administration.

Horrid task

The best-known store in London, Harrods, has just advertised for some "pro-active" fire fighters to join its staff. Not for clearing old stock, surely?

Eye off the ball

Spent too long in the scrum? A couple of England rugby fans got their wires crossed, and braved the Irish sea last weekend to cheer on their team in Dublin. Only problem was, the game was played at Twickenham.

100 years ago

The Cuban revolt According to a Havana cable, which reaches London by way of New York, the "loss resulting" from the first year of the Cuban revolt is estimated at 134 million dollars, or in round figures, 27 million sterling. It would be interesting to know what the correspondent means. If he refers to the loss to Cuban trade, then Cuban trade must have grown without anybody's knowing about it, seeing that the total exports from the island are about 80 million dollars per annum. If, on the other hand, he means the expenditure of Spain on the civil war, then it is from Madrid that such an estimate should come. We ourselves should think that a considerable portion of the 134 million dollars has been squandered on the despatch of unreliable cables from the seat of war.

50 years ago

Dutch pacts It is learned that the Netherlands and Portuguese Governments have concluded a monetary agreement fixing the rate of exchange at 10.69 guilders to 100 escudos. A commercial treaty was signed at the same time. Both pacts are to remain in force for one year.

**LEGAL DEFINITIONS**  
 1 term commonly used for securing carpet to floor  
 2 road disk as dispensed to motorists (ref. Switzer)  
 3 fiscal obligation to State executed under very complex laws, see ROWE & MAW; asap (pA 0171-248 4282)  
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# FINANCIAL TIMES

Thursday March 21 1996

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## Government officials warn VAT exemptions will lead to deficit Philippines budget under pressure

By Edward Luce in Manila

The Philippine budget is likely to plunge into deficit this year after posting two consecutive surpluses, because of a heavy dilution of new consumption taxes by congress. Department of Finance officials said yesterday.

Amendments passed in the House of Representatives since January providing more than 12 exemptions to the value added tax on goods and the enhanced VAT on services, which was introduced in January, would reduce government revenues by 22bn pesos (\$840m), officials said. The government posted a surplus of 16bn pesos in 1995.

This completely overturns our calculations of a zero or positive budget surplus in 1996 and makes a mockery of introducing the

EVAT in the first place," said Ms Nene Guevara, undersecretary of Finance.

"We are now looking at a consolidated public deficit of around 1.5 per cent of GNP," Ms Guevara said congress had misconstrued the exemptions as being "pro-poor" when in fact they were specifically targeted at middle class consumers. For example, the exemption of the 10 per cent tax on processed food, which would cost the government 17bn pesos alone, would almost wholly benefit middle income groups, as unprocessed food, which makes up the bulk of the poor's food spending, had already been excluded from VAT.

"You can hardly describe exempting real estate transactions of 1m pesos or less as being

a measure which would benefit the poor or for that matter exempting rent-a-car companies and tourist buses," said Ms Guevara. "What will harm the poor is the impact this will have on the wider economy, including higher interest rates, higher inflation and the lower growth resulting from deficit financing."

With prime interest rates above 13 per cent and inflation at 11.5 per cent, government officials have accused congress of acting irresponsibly for short-term political gain.

Opposition senators, who could overturn the amendments before they are signed into law in June, doubt they have the numbers to reverse the process.

"We will do our best in the Senate to fight the lower house's amendments, but we are not opti-

mistic," said Senator Edgardo Angara, minority leader in the 24-member senate. "It is difficult to fight this when it is the government's supporters who are mangling the administration's fiscal programme themselves."

Government officials said that the Philippine three-year economic turnaround, which has won international acclaim and boosted direct foreign investment, could fail to pick up further momentum unless the country could guarantee long-term fiscal responsibility.

Failure to enact a comprehensive tax reform bill this year or to reverse the VAT amendments would confound the government's efforts to spend more on infrastructure, boost domestic savings and reduce the cost of borrowing, officials said.

## US regulators call time on brewer's Internet share trade

By Lisa Bransten in New York

US regulators took the fizz out of Spring Street Brewing's launch of Internet share trading yesterday by stopping the two-day-old experiment in cyber finance.

Spring Street, a young Manhattan-based brewing company, voluntarily suspended trading in its shares yesterday after the Securities and Exchange Commission (SEC) requested that trading be halted pending further review.

The company launched its electronic trading system two weeks after completing the first ever public offering over the Internet, in which it raised \$1.6m from 3,500 investors.

That offering was done under a special SEC regulation that allows small companies to raise less than \$5m without an underwriter.

The SEC would not comment on the action, but Mr Andrew Klein, Spring Street's chief executive, said the regulators he spoke

to appeared concerned that the company was acting as its own transfer agent.

Under the Wit-Trade system, named after Spring Street's Wit ale, potential buyers and sellers post offers on a bulletin board at the company's site on the World Wide Web.

They can then e-mail, telephone or write to a counterparty and agree a price.

Once buyer and seller agree a price the purchaser must send a cheque to Spring Street, which transfers the money to the seller and the shares to the buyer.

One advantage to the system is that no fees are paid to outside broker-dealers.

Mr Tim Flanagan, a lawyer with Mayer, Brown & Platt in Washington, said companies could not, in general, act as clearing houses for their own shares. "I suspect that is where the SEC is nervous," he said.

In its one full day of trading, Spring Street got four commit-

ments for trades. The tiny company is only three years old, and in its last quarter made a loss of \$106,111 on \$239,691 in revenues.

While the national exchanges such as the New York Stock Exchange and the Nasdaq stock market are hardly threatened by Spring Street's minute volumes, there are concerns about companies that circumvent traditional markets.

Mr Marc Beauchamp, a Nasdaq spokesman, said he was concerned about the potential for fraud in such an unregulated marketplace. "Investors could end up buying non-existent shares from non-existent people and not get anything in return," he said.

Mr Klein is confident Spring Street will eventually be able to resume trading its shares through the Internet, possibly by hiring an outside broker-dealer to handle the trades. "It's not insurmountable," he said. "It's just a pain in the neck."

## UK evidence links BSE to humans

Continued from Page 1

out accompanying measures to control beef production in the UK. "EU legislation is designed to protect all European consumers. Any new measures would also have to protect British consumers," an official said.

Three German states have banned imports of UK beef because of fears over BSE. However, last year most of Britain's 277,000 tonnes of beef exports to the EU went to France, Italy and the Netherlands. Germany imported only about 200 tonnes.

The Brussels official pointed out that the Commission had "erred on the side of caution" in drawing up the EU's present regime of controls on beef production. "Even though there has never been any evidence to suggest humans could contract BSE, EU policies were based on the principle that such a link could not be excluded," the official said.

## Brussels suspects ABB is one leader of heating 'cartel'

Continued from Page 1

ny's being awarded a district heating contract in Leipzig-Lippendorf, in eastern Germany, in March 1995.

The letter, written by the Commission to suppliers and customers of Powerpipe asking for information, also states: "should it be proved that this is the work of a collective boycott, it could represent a serious violation of Article 85 of the EC-Agreement", the European Union law governing investigation of presumed violations of competition rules. If the suspected companies are found guilty, they may have to pay heavy fines. The six companies suspected by members are ABB, three Danish companies - Logstor, Turco and Starpipe, and two German-based companies - Panisovt and Isoplus.

The Commission's letter to Powerpipe suppliers and customers asks them to "forward copies of all documents relating to possible contacts between your company and manufacturers of insulation pipes."

The Commission has also been preparing letters to be sent to the suspected cartel members questioning them on the evidence gathered. Details of the workings of the suspected cartel have emerged. Members apparently sought to allocate among themselves all contracts worth more than DM100,000 (\$68,000) in a number of European markets. But some members have complained that others have broken this understanding and accepted contracts unilaterally.

Evidence with the commission has also established that after the award to Powerpipe of an eur-

lian contract in eastern Germany, this time in Neu Brandenburg, several members of the suspected cartel mounted a concerted effort to persuade Powerpipe to give up the contract during which it was explicitly offered membership of the circle. It includes references by senior executives from suspected cartel members to how the "circle" operates under the cover of the European District Heating Pipe Manufacturers Association, an industry trade body.

The executives acknowledge the existence of frequent contacts between themselves in the course of attempts to keep the cartel in operation and state that they are orchestrated by ABB officers.

These contacts led to co-ordinated moves to offer Powerpipe assured market share in Sweden and several other European markets if it stopped attempting to

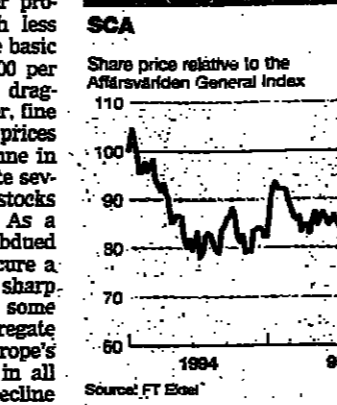
take business in markets in which the cartel was operating. It was made clear that the consequences of not co-operating would be concerted action by cartel members to freeze Powerpipe out of business, in part through aggressive pricing by cartel members on contracts bid for by the Swedish company.

ABB said yesterday: "We have no comment as long as the investigation is going on."

Isoplus said: "We are not members of a cartel". Panisovt and Turco refused to comment. Logstor said: "We have and will continue to help the commission in any investigation in any way we can. Further than that, we have no comment." Mr Klaus Skjott, managing director of Starpipe, confirmed he had been contacted by Commission investigators, but he refused any further comment.

## THE LEX COLUMN Paper tigers

Yesterday's four-fold profits increase from Sweden's SCA puts the seal on a vintage year for Europe's paper producers. The future looks much less promising. The price of pulp, the basic raw material, has halved to \$500 per tonne in less than six months, dragging down prices for coated paper, fine paper and containerboard. Spot prices have fallen as low as \$450 a tonne in some instances. Moreover, despite several months of destocking, pulp stocks are still at near-record levels. As a result, demand has remained subdued as customers defer orders to secure a better price. This will lead to a sharp reduction in profits this year - some brokers are estimating an aggregate fall of nearly 50 per cent for Europe's top 15 paper companies - and in all likelihood a further earnings decline in 1997.



At least the industry is showing more discipline than during previous downturns. Northern European forestry groups, like Stora and MoDo, have all cut production. And most producers are putting plans for new capacity on hold and channelling money into higher dividends. SCA raised its payout by 27 per cent yesterday. Consolidation, including the merger of Kymmene and Repola in Finland, should also help create a more orderly market.

Nevertheless, valuations are looking stretched. Buying of cyclical stocks, primarily by optimistic US investors, has driven many paper company share prices up by over 30 per cent since January. SCA is now trading on 10 times earnings. With a turn in the pulp price unlikely before 1997, that looks too high.

BT

BT's profits look set to fall following yesterday's draconian statement from Ofcom, the industry regulator. Ofcom estimates its price cap proposal will slash operating cashflow to BT's core regulated business by £1.2bn over the next five years. BT's other businesses - such as multimedia, mobile communications and international expansion - are most unlikely to make up the deficit. Indeed, many will absorb increasing amounts of cash until early next century.

BT may be able to challenge elements of Ofcom's proposal. The regulator's assumption that unit costs can be cut by 4% per cent a year looks particularly vulnerable. During a period when BT shrank its workforce by 100,000, unit costs fell only 3% per cent a year, with roughly 140,000 employees left. Similar progress will be hard to achieve. Similarly, the principle of giving Ofcom powers to police anti-competitive behaviour is contentious, but the regulator's precise plan contains too few checks and balances. Unless

Ofcom gives ground on these points, BT will have a strong case to take it to the Monopolies and Mergers Commission.

But even if BT wins these points, that will be cold comfort for shareholders. The main issue is profitability. Ofcom has retreated from its extreme suggestion that BT's return on capital should be as low as 3 per cent. But the new figure of nearly 13 per cent will still cut annual profits by over 21bn. It could probably also be defended at the Monopolies Commission.

This is bad news not only for BT but also for rivals like Mercury Communications and the cable television groups. As BT cuts prices, they will have to follow suit. But the prospect of seeing its competitors in difficulty will be only the faintest silver lining in a dark cloud.

UK banks

Bank stocks, widely viewed as a proxy for bonds, dramatically underperformed the stock market during the recent sell-off. This may seem logical enough. The market rout was, after all, sparked by concern about inflation and higher interest rates, and it is accepted wisdom that inflation encourages irresponsible borrowing, and higher rates cause defaults, depressing banks' profits.

But in reality the link is more subtle. Given the low level of current interest rates, there would probably be at least some slack before higher rates became painful - arguably, not until the base rate climbed about two points to 8 per cent. And gradually rising rates might allow banks to increase margins - partly because they pay virtually no interest to some depositors. Furthermore, banks should be less vulnerable to bad debt than at the end of the 1980s, since they have retained lending substantially, if not by as much as they like to pretend.

Likewise, while high-inflation accompanied by unsustainable economic growth tends to fuel excessive borrowing, modest inflation leading to modest loan growth could be viewed as positive. The snag is that using up excess capital by lending would make share buy-backs - on which the market has set its heart - less likely. If the highs and lows of the current cycle do prove less extreme than last time, the correlation between bonds and banks, which is, after all, a relatively recent phenomenon, could well be broken.

Additional Lex comment on Beazer, Page 18

**FT WEATHER GUIDE**

**Europe today**  
 A frontal depression west of southern England will produce cloud and rain in southern Ireland, England, France, south-west Germany, the Alps, Belgium and the southern Netherlands. The Alps will have snow above 1,500 metres. High pressure over the western Mediterranean will cause dry and sunny conditions over Spain, Portugal and the Balearic Islands, Morocco, Tunisia and the Canary Islands. Temperatures will rise to about 20C. The eastern Mediterranean will remain wintry. Depressions over Turkey will cause cloud and rain or showers in Turkey, Cyprus and Israel. A high over Scandinavia and north-western Russia will give calm, dry but rather cold conditions.

**Five-day forecast**  
 The high over the western Mediterranean will join the Russian high in the next few days. Depressions will persist over the Atlantic and the eastern Mediterranean. Mild air will be driven north through south-western Europe. It will become springlike with increasing temperatures and more sun in Spain, Portugal, France, the British Isles, the Benelux, Germany and the Alps. Depressions over Portugal, the British Isles and southern Scandinavia will

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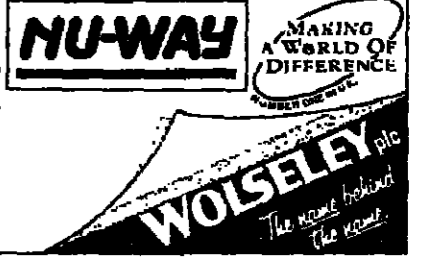
Today's explosion of information technology would be impossible without integrated circuits, or chips. Turning silicon wafers into finished chips is a highly sophisticated process. Most fabrication is performed either within a company's own facilities or by a contract manufacturer.

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FINANCIAL TIMES COMPANIES & MARKETS

Thursday March 21 1996



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IN BRIEF

Rockwell rises on sale expectations

Shares in Rockwell, the US manufacturer and defence group, rose almost 5 per cent on renewed suggestions that it might sell its defence and aerospace operations. Rockwell refused to comment. Although the company has become less dependent on defence in recent years, 28 per cent of its \$1.3bn sales last year were to the US Defence Department and the NASA space agency. Page 16

Agreement reached over Azucarera Générale Sucraria of France is poised to advance in Spain's sugar sector as the co-owner of General Azucarera, the second biggest domestic sugar producer, through a Pta16bn (\$128.9m) deal with Banco Central Hispano and Acor, Spain's third-ranked sugar company. Page 14

CCF records 12th earnings rise Crédit Commercial de France, the banking group, has reported its 12th consecutive annual increase in net income. The bank recorded a 2.3 per cent increase in net income to FF1.2bn (\$287.8m) in 1995. Page 14

Lehman climbs to \$104m in quarter The surge in US mergers and acquisitions activity was evident when Lehman Brothers, the investment bank, said it was working on deals with a total value of \$68bn at the end of February. Lehman was reporting its first-quarter results, which showed net income of \$104m, an increase from \$46m in the same period a year ago. Page 16

Sun Hung Kai optimistic after 5% rise Sun Hung Kai, one of Hong Kong's largest property groups, has announced a modest increase in profits for the six months to the end of December, but struck an optimistic note about prospects for the Hong Kong market. Its net profits rose 5 per cent to HK\$6.15bn (US\$968m). Page 17

Westpac to buy back 65m shares Westpac, one of the big four Australian banks, has announced plans to buy back and cancel 65m shares through stock market purchases. It is the first of the big Australian banks to announce such a scheme under "regular" circumstances. Page 17

M&C to end last colonial link Harrison's & Crossfield, the conglomerate which began life as a 19th century tea trader, is considering severing links with its colonial past by floating the palm oil plantations business in Papua New Guinea. It is estimated that Harrison's could raise \$20m (\$46m) from a flotation of its 54 per cent stake. Page 18

Restructuring and US buy help Weir Shares in Weir Group rose 23p to 259p after the pumps and engineering business announced a 50 per cent increase in profits for the year to December 29. The rise reflects the benefits of last year's reorganisation and maiden full-year contributions from EnviroTech, the US pumps company acquired for \$210m 18 months ago. Page 18

Canada leads silver production 'revival' A "mini-boom" in silver production is taking place, according to the CRU International metals consultancy. Last year Canada led the way and "a surprise revival" is also occurring in the US. Page 19

Table with 3 columns: Company Name, Share Price, and Change. Includes companies like ABS, AT&T, Aerospaciale, Alkermid, Almonte Pitar, etc.

Table with 3 columns: Market Statistics, Value, and Change. Includes Annual reports service, Benchmark Govt bonds, Bond returns and options, etc.

Table with 3 columns: Chief price changes yesterday, Name, Price, and Change. Includes SPANISH GOV, Shell, BP, etc.

Profits surge fivefold at SCA

By Christopher Brown-Humes in Stockholm

SCA Europe's leading pulp and paper group, yesterday rounded off a record year for Swedish forestry by reporting a fivefold surge in 1995 profits from SKr1.06bn to SKr5.73bn (\$855m). It means combined profits for Sweden's four biggest forestry groups - SCA, Stora, MoDo and AssiDomän - rose nearly three times from SKr2.17bn to SKr7.23bn, mainly because of much stronger prices for pulp and most paper grades. But, echoing its competitors, SCA warned of tougher conditions in 1996, saying slower Euro-

Swedish forestry group rounds off a record year for the sector on the back of strong pulp prices

pean economic growth had lifted inventories and undermined prices. Pulp prices have fallen sharply since peaking at \$1,000 per tonne for long-fibre grades last October, and prices for containerboard, coated magazine paper (LWC) and fine paper have been hit. Mr Sverker Martin-Löf, SCA chief executive, said pulp prices had almost halved in less than six months to between \$500 and \$550 per tonne. "High inventories ought to lead to further production cuts fairly quickly," he said. "We see no reason to paint an overly black picture, but it is going to take a few more months before we see where the business cycle is heading," he added. Analysts say SCA's profits will slump below SKr5bn in 1996, which would be more resilient than other Nordic forestry groups. SCA's hygiene and packaging operations, less cyclical than its graphic paper businesses, should cushion it from the worst of the market down-

turn. The group said its 1995 results had been lifted by its purchase, for more than \$1bn, of a 75 per cent stake in PWA, Germany's leading pulp and paper group, at the start of last year. It said PWA had done better than expected, contributing SKr1.08bn to profits, or SKr3 a share, against an initial estimate of SKr1. Group operating profits jumped from SKr1.51bn to SKr7.35bn after sales surged from SKr3.7bn to SKr76.3bn. Graphic papers fared best, with profits leaping from SKr495m to SKr2.29bn, while packaging profits jumped from SKr910m to SKr2.37bn. The restructured hygiene division saw profits rise from SKr515m to SKr1.1bn, but this was only because of PWA. SCA's core Malmbycke unit was hit towards the year end by rising raw material costs and lower nappy prices. SCA said pulp and paper markets started falling in the second half of 1995, but fourth-quarter profits of SKr1.42bn were still much stronger than SKr385m in 1994. The dividend is lifted from SKr3.75 per share to SKr4.75. Lex, Page 12

Hopewell tax boost fails to halt slide

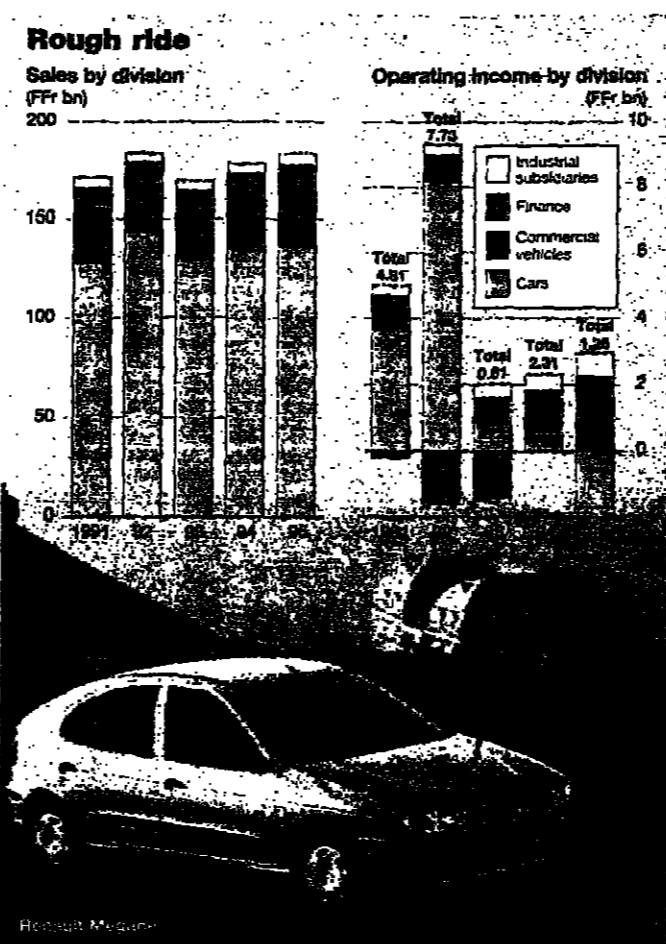
By Louise Lucas in Hong Kong

Hopewell Holdings, the property company owned by Mr Gordon Wu, yesterday reported a sharp slump in interim net profits to HK\$466.4m (US\$60m) from HK\$1.26bn in 1994, in spite of an unexpected earnings boost of HK\$195.7m from a tax write-back. In line with what analysts called its "disappointing" performance, the dividend was slashed to 3 cents from 10 cents. The figures for the six months to December 31 suggest Hopewell is on course for a steep deceleration in earnings at the year end. Stripping out an exceptional item of HK\$96m in 1994, and this interim's tax write-back, profits were down 7.9 per cent, from HK\$292.17m to HK\$270.65m. Hopewell Holdings' biggest contribution to profits came from interest income on shareholders' loans. This accounted for around HK\$200m of net profits, compared with the second biggest earner, HK\$150m from rental income. There was little good news for investors on the progress of Mr Wu's endeavours to cut the company's HK\$9bn corporate debt. In January Mr Wu revealed plans to spin off Hopewell's roads and transport projects and said he had received commitments totalling HK\$5bn out of a projected initial capital raising of HK\$9bn. Yesterday directors were less forthcoming, citing fear of reprisal from the stock exchange for allowing information to trickle out. Mr Robert Nien, director, said discussions with investors were under way: "What remains is negotiation on terms and pricing." The centrepiece of the latest spin-off, which is to be called Consolidated Real Estate and Transport Asia (Crea), is the south China superhighway and related roads and property. According to Mr Nien, 38,000 vehicles a day were using the road at the start of last year; by December, the number had risen to 50,000. Just before the Chinese new year, almost 70,000 vehicles a day were recorded, he said. The group is also in talks with the Guangdong provincial government to raise the toll charge. Work is still suspended on the Guangzhou ringroad, as Hopewell executives grapple with provincial government officials in an effort to amend the joint venture contract. Crea results, Page 17

Renault head surprised by severity of downturn

Moving faster to stay with the pack

Ever popular and urbane, Mr Louis Schweitzer, chairman of France's state-controlled Renault vehicles group, let his mask slip a little yesterday after aggressive questioning from both sides of the Channel on the group's poor 1995 results. In analysts' meetings in Paris and London, Mr Schweitzer repeated his view that Renault's 41 per cent drop in net profits to FF2.1bn (\$425m), announced on Tuesday, stemmed largely from factors beyond its control. However, he could not hide the fact that the figures have set back hopes that the French government - which still owns 53 per cent of Renault - might dispose of more shares in the near future. "It is not often fund managers tell you they won't buy a share at virtually any price," says one analyst. "But that's almost the case at Renault." Even an uptick in the market, good first-half results and signs that the crucial new Mégane mid-sized range is selling well may not be enough to convince hardened investors. Renault blamed weak European demand, currency depreciations and the Mégane's introduction for the swing to a FF1.7bn operating loss at its core car division after profits of FF299m in 1994. West European car sales rose just 0.6 per cent last year, while demand in France, Renault's home market, was hit by December's strikes. The company, like other north European carmakers, also suffered a competitive disadvantage compared with counterparts, such as Fiat, based in countries with weaker currencies. And Renault was hit by the replacement of the well-regarded R15, which competes in Europe's biggest car segment, with the Mégane. "But all that is not enough to explain last year's results," says Ms Sabine Blömel, an analyst at IBI in London. Like many commentators, she is disappointed Renault did not signal how its results were deteriorating last year. Most analysts were forecasting a loss of about half the size. Some were also dissatisfied that the company did not hint at earnings this year. In an interview, Mr Schweitzer said Renault had been taken by surprise by the severity of the downturn last year - explaining why analysts may have felt ill-informed. The unpredictable market is why he says it is "not fair" to make forecasts for 1996. Many analysts fear the worst, as Renault's difficulties bite much deeper than the extraneous circumstances it cited. Renault has enlivened its model range, raised quality and lowered production costs. However, "all that has done is to lift itself from below average to an average position," says one analyst. In spite of efforts to cut costs with new models, Renault's operating margins are believed to be 24 per cent lower than Peugeot-Citroën, its most direct competitor and one of Europe's most productive carmakers. "I think our production costs are rather well in line," counters Mr Schweitzer. He admits, however, matters are different for engines, where Renault's costs are "not fully satisfactory". He admits Renault cannot stand still. This week, he promised a cut in the average production cost per car by FF3,000 - or roughly 3 per cent - slashing costs by FF4.5bn a year by the end of 1997. The company will take its cue from a cost reduction drive begun last year on the Laguna mid-sized hatchback. The improvement in Renault's models has not always been reflected in their pricing and profit margins, in spite of the fact that current models are unrecognisable from the bland and poorly-built cars of the 1980s. Although praised in the media, the Laguna is often sold at a discount, whereas Peugeot's direct competitor, the new 406, is likely to sell without heavy price cuts. Mr Schweitzer admits there is a pricing problem, stemming from the fact that Renault's image remains weaker outside France. That affects pricing policy and makes its margins even more reliant on domestic sales. Renault faces a fundamental structural problem as a single brand company, with a relatively small range of models, compared with multi-brand rivals. With only one brand, an important model change leaves the group relatively vulnerable. All carmakers face risks with big model changes. Old stock has to be cleared, often at low prices, while launch costs can be staggering. But a manufacturer with more than one brand can often time model changes to cause the least disruption. Mr Schweitzer denies single branding is a "major handicap" and says Renault has no plans to change. He admits, however, the company has a problem with executive cars, where margins are usually biggest. The combination of these factors explains why analysts are bearish about Renault this year. Many expect the cars side to stay in loss. Nor do they think Renault's resurgent commercial vehicles side, which increased its operating profits fivefold last year to FF575m, is big or strong enough to fill the gap in the long term. Haig Simonian



Digital shares drop as fears grow over US PC sales

By Tony Jackson in New York

Shares in US personal computer manufacturers were battered yesterday as Digital Equipment warned of a slowdown in North American PC sales in the current quarter, which would affect its earnings overall. In early trading, Digital shares fell \$10.75 to \$56.75, a drop of 16 per cent. Digital, which said in January that it was quitting the consumer PC market and focusing on PCs for commercial use, said it had started to see a slowdown in the commercial market in February. At the beginning of March it cut the prices on its machines by up to 25 per cent. This formed part of a general price war among suppliers of commercial PCs, including Compaq, IBM and Dell. However, yesterday's announcement surprised the market, in particular the company's warning that difficulties in PCs - which account for only 15 per cent to 18 per cent of Digital's revenues - would cause the group's earnings to fall short of forecasts in this quarter. Digital said yesterday it had encountered a significantly reduced demand and increased price pressure, particularly in North America. It added that the problem had been compounded by overstocking in the retail chain of its own and competitors' products. The company said that having introduced price cuts and promotions in response to the slowdown, it had realised in the past few days that the severity of the situation should be disclosed to its shareholders. It said that earnings for the quarter were likely to fall short of estimates, which range from \$0.67 a share to \$1.19. However, it said that the rest of the business continued to perform well. On that basis, it expected a significant improvement on last year's figure of \$0.44 a share. By lunchtime, shares in Compaq had fallen 6 per cent, down \$2.75 to \$37.75. IBM had fallen 6 per cent, down \$5.75 to \$116, as had Hewlett-Packard, down \$5.75 to \$89.50. Dell Computer had dropped 5 per cent, down \$1.75 to \$31.75. The drop in PC makers' shares affected technology stocks generally. The Nasdaq index fell 10.92 to 1101.58, while the Pacific Stock Exchange Technology Index fell 4.59 to 206.23, a drop of 2.2 per cent. The setback is an embarrassment for Digital, which has been in profit for only five quarters after net losses totalling \$1.7bn before special charges in the three years 1992-94. Like IBM, the company had been hit by its reliance on mainframe computers, and went through a long restructuring period during which its survival was in doubt. However, the recovery in its fortunes in the past two years has pushed its market value back up to almost \$10bn. The Wall Street broker PaineWebber was reported to have lowered its forecast for the quarter from \$1.08 to \$0.70 a share, and to have warned that difficulties in the PC market could persist.

AT&T's Internet service to use Lotus Notes software. By Paul Taylor in London. AT&T, the US-based international telecommunications group, said yesterday it would integrate some new Lotus Notes software with its Internet service offerings. The announcement comes less than a month after AT&T said that it would not use Lotus Network Notes service and was shifting its focus to open standard Internet software. At that stage AT&T said the Internet had made the Network Notes service, which connects Notes users over AT&T's telephone network, obsolete. That decision was seen as a blow for IBM, which last year acquired Lotus Development, the software company that developed Notes, for \$3.52bn. IBM's shares dropped sharply in the wake of AT&T's decision. AT&T's rethink was widely seen yesterday as a bid to patch up relations between the two US companies. AT&T said it would use an upcoming version of Lotus Notes software as the foundation for many of its Internet products. The new Notes server will be available from the autumn and will be used for electronic commerce, marketing and publishing as well as collaborative services. AT&T also said it would accelerate the deployment of Lotus Notes software in its internal management systems, and would work with IBM and its Lotus unit to develop Notes-based systems for AT&T and other network companies.

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COMPANIES AND FINANCE: UK

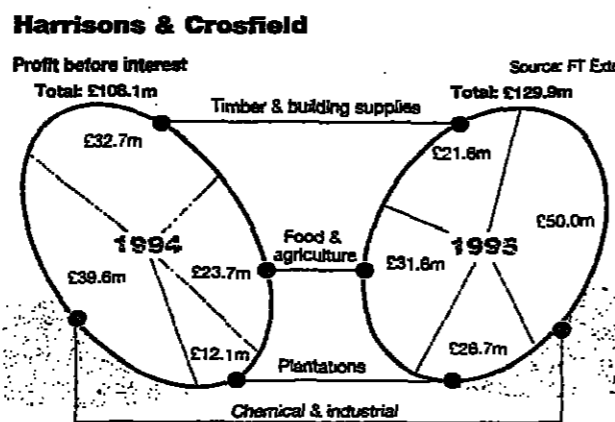
Record palm oil prices behind 5% rise in operating profits to £130m

H&C to end last colonial link

By Peggy Hollinger

Harrisons & Crosfield, the conglomerate which began life as a nineteenth century tea trader, is considering severing links with its colonial past by floating the palm oil plantations business in Papua New Guinea.

cent lower at £2.06bn. Pre-tax profits fell from £236.7m - which included a £143.4m gain on disposals - to £119.6m. Mr Turcan said yesterday that in spite of a good performance from plantations, and advances in its chemicals, food and agriculture businesses, Harrisons faced a difficult 1996.



Food and agriculture profits rose from £23.7m to £31.6m, helped by rising pig prices. Chemicals increased by 26 per cent to £50m at the operating level, and the plantations business more than doubled from £12.1m to £26.7m.

UK bankers in Deutsche reshuffle

By Nicholas Denton

Mr John Craven, the Morgan Grenfell executive who secured the UK merchant bank's sale to Deutsche Bank in 1989, is set next week to hand over his seat on the powerful board of managing directors of the parent German bank.

remain on Deutsche's five-man investment banking board, and retain the largely titular position of chairman of Morgan Grenfell Group. Mr Craven, 55, is expected to focus on client relationships.

Mr Miller said the group now had the financial and managerial resources to take on another big acquisition, but that given the prospects for the existing businesses it would be very selective.

Flextech in satellite talks

By Raymond Snoddy

Flextech, the cable and satellite programming group which has an interest in or manages 13 channels, is in negotiations to buy control of UK Gold and UK Living, two satellite channels.

Flextech also announced it had reached conditional agreement to buy the outstanding 61 per cent of International Family Entertainment UK and that it had reached agreement with Home Shopping Network of the US to acquire a controlling interest in its "infomercial" business.

Channel, and its assets include the former TVS studios in Maidstone, which will be used by Flextech's channels. A new Flextech subsidiary, will acquire worldwide rights from Home Shopping for the business, in which programming is based on long commercials.



Roger Luard, chief executive, home shopping launch

Restructuring and US buy helps Weir to 50% advance

By Tim Burt

Shares in Weir Group yesterday rose 23p to 258p after the pumps and engineering business announced a 50 per cent increase in profits for the year to December 29.

from EnviroTech, the US specialist pumps company acquired for £210m 18 months ago. Although the improvement was flattered by a £7.5m exceptional reorganisation charge in 1994, the company still reported a healthy increase in operating profits.

contemplate another sizeable acquisition, probably in the pumps or valves sector. He hinted that the group could comfortably absorb an acquisition of about £100m in the UK or US, which would push gearing from 5 per cent at the year end to about 60 per cent. The search has been stepped up following a sharp rise in orders, he said.

Beazer loses sales to keep margins

By Andrew Taylor, Construction Correspondent

Beazer lost its position as Britain's second-largest housebuilder in the final six months of last year after it reduced sales rather than allow profit margins to fall.

General Cable buy behind Wassall 32% rise

By David Wighton

Wassall, the UK-based conglomerate, yesterday demonstrated the success of its General Cable acquisition 18 months ago, by unveiling a 32 per cent increase in annual profits to £55.1m (£84m) before tax and exceptional items.

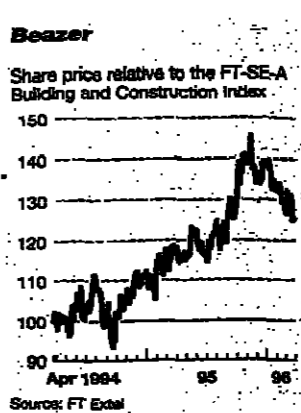
this year, any deal would have to do at least that well. Not only can we afford to be careful, we have to be.

Excluding exceptional items and the effect of copper price movements, earnings per share rose 30 per cent to 17.4p last year, the strongest growth since the current management team was installed in 1988.

General Cable saw operating profits jump to £31.3m on sales up 18 per cent to £871.7m. Margins reached 4.7 per cent, which Mr Miller said was close to the 6 per cent target set at the time of the acquisition, allowing for the rise in the copper price.

LEX COMMENT Beazer

Beazer's decision to sacrifice volume for the sake of preserving margins may well be a case of making a virtue out of necessity. But it is a virtue nonetheless, given the dire state of the housing market.



Source: FT Econ

The problem is that the most important raw material for housebuilders - land - is difficult to buy. Despite the weakness of the housing market, land prices remain high, partly because too many housebuilders are still chasing volume in an effort to shore up profits.

There is still the prospect that higher house prices will help beleaguered housebuilders. Reservations have been more robust in the first quarter, and hopes are pinned on the impact of tax cuts.

Britannic Assurance seeks to modernise

By Alison Smith, Investment Correspondent

Britannic Assurance, the life and pensions group, is undertaking a programme of change to modernise its business and become more cost-effective.

their homes to offer advice and collect payments.

His comments came as Britannic announced an 80 per cent rise in pre-tax profits for 1995 to £58.5m (£86m), against £33.5m in accordance with the EU insurance accounts directive, this figure includes realised and unrealised investment gains and losses, and so is more volatile than operating profit.

Operating profits rose 7 per cent to £50.6m (£47.3m) as a small dip in profit from industrial branch business - relatively limited products for which small premiums are collected every few weeks from customers' homes - and a fall in general insurance profits to £1.6m (£2.3m), were more than offset by increases from the other elements of the life assurance business.

DIGEST TI's US fraud case may go to appeal

Lawyers acting for the US government have filed notice of appeal against the decision of a New York court to dismiss a \$60m fraud action involving TI Group, the UK engineering and aerospace company.

CRH makes \$87m US buy CRH, the Irish building materials group, is continuing to expand its US quarries business via the \$87m cash purchase of The Jack B. Parson Companies, with aggregate interests in Utah, Idaho and Nevada.

Devro to rationalise Teepak Devro International, the sausage casing maker, warned yesterday it may spend £10m rationalising Teepak International, the US casing manufacturer it recently acquired for £133.5m.

Blenheim restores credibility Blenheim Group, the exhibitions organiser, further restored its credibility - lost through a series of profits warnings in recent years - by reporting a 17 per cent rise in 1995 profits. The result was buoyed by contributions from several of the group's largest shows that are held only on alternate years.

Table with columns: Company, Year, Turnover (£m), Pre-tax profit (£m), EPS (p), Current dividend (p), Date of payment, Dividends corresponding to year, Total for year, Total last year. Lists various companies like Standard, Beazer Homes, Bluebird, etc.

Bank Handlowy w Warszawie S.A. Capital Markets Centre acting on behalf of the State Treasury represented by the Minister of Finance. Invitation to negotiations with respect to acquisition of shares of Wielkopolski Bank Kredytowy S.A.

Marley falls 21% and unveils sale

Marley, the building materials group, yesterday announced the £53.2m (£81m) sale of most of its automotive components business as it reported a 21 per cent fall in annual pre-tax profits to £46.3m, writes Andrew Taylor.

expected to fetch more than £20m. Marley said automotive companies were now seeking global rather than regional manufacturing facilities and expected component suppliers to develop similar manufacturing and marketing strategies.

The board of directors of AIVC Europe Holding BV hereby publishes the balance sheet of the company as per December 31, 1995. Assets: Fixed assets F 10,000, Current assets F1,011,006. Liabilities: Shareholders' Equity F1,011,006, Current liabilities F 10,000.

ILP GROUP PLC. Placing of 9,000,000 Ordinary Shares of 12.5p each at 7.5p per share by English Trust Company Limited. Includes financial details and company information.

Canada leads silver production 'mini-boom'

By Kenneth Gooding, Mining Correspondent

A "mini-boom" in silver production is taking place, according to the CRU International metals consultancy. Last year Canada led the way and a "surprise revival" is now also occurring in the US.

Table: Mine Production of Silver (tonnes). Columns: Mine, 1995, 1994. Rows: Mexico, Canada, US, Peru, Australia, Others, Total.

As well as more than 40,000 ounces of gold a year, in mid-1995 there should also be a substantial expansion at the Escondido copper mine, operated by BHP of Australia, which will produce an extra 60 tonnes of silver annually.

Seed breeders win 'fairer deal' in UK

Farmers have agreed to pay royalties on seed saved from their own crops, writes Alison Maitland



Sir David Naish: Says deal allows all parties "to look to the future with confidence".

This autumn, British arable farmers will for the first time pay royalties to plant breeders when they use seed they have harvested themselves rather than bought.

The UK have run into financial difficulties and had to cut staff and breeding programmes in the past two years. The society says use of farm-saved seed has grown from a negligible amount in the mid-1950s to between 25 per cent and 30 per cent of the total seed used.

Farmers with more than 15 hectares of the relevant crops will pay breeders only on land sown with varieties on the European Plant Variety Rights list, which was established last year.

Conflicting messages sent about Brazilian gold mine expansion

By Kenneth Gooding

Brazil's second largest gold mine is to be expanded but there are conflicting messages from the owners about the scope of their plans.

Extra annual ounces as the RTZ/CRA production. The open pit, low-grade mine came into production in 1987 at a cost of \$62m, initially producing 96,500 ounces a year and with an expected life of 15 years.

Jute output tumbles in India and Bangladesh

Mills are finding it increasingly difficult to maintain production of goods, writes Kunal Bose

Jute production in India and Bangladesh, the world's leading producers, has taken such a beating in the current season (July-June) that the mills are finding it increasingly difficult to get enough fibre to maintain output of jute goods.

The shortage of raw jute in Bangladesh has raised the price to a level at which only Indian mills making high added value products like export grade yarns and fine fabrics can afford to import.

Group of Indian mills made an attempt to import fibre from the other jute-growing countries. "But it has drawn a blank," he said. "China has a marginal export surplus. The kenaf [a jute substitute] crop in Thailand is small enough, forcing it to import fibre from Bangladesh.

ing record prices and according to Mr Ladia "the prices are likely to go up even further in the coming weeks". "Much will depend," he said, "on whether West Bengal and Assam, the country's two most important jute growing states, will receive rain in March to enable the growers to go for early sowing.

US fraud case go to appeal

By Kenneth Gooding

Makes \$87m US buy

COMMODITIES PRICES

Large table containing various commodity price listings including Base Metals, Precious Metals, Grains and Oil Seeds, Softs, Meat and Livestock, London Traded Options, and London Spot Markets.

JOTTER PAD: A grid for writing notes or calculations.

CROSSWORD: A crossword puzzle titled 'No.9,024 Set by DANTE' with clues and a grid.

Vertical sidebar with various advertisements including 'Beazer', 'US fraud case go to appeal', and 'ILP GROUP PLC'.



entina sets 1500m issue

entina sets 1500m issue... The dollar yesterday remained confined within narrow trading ranges...

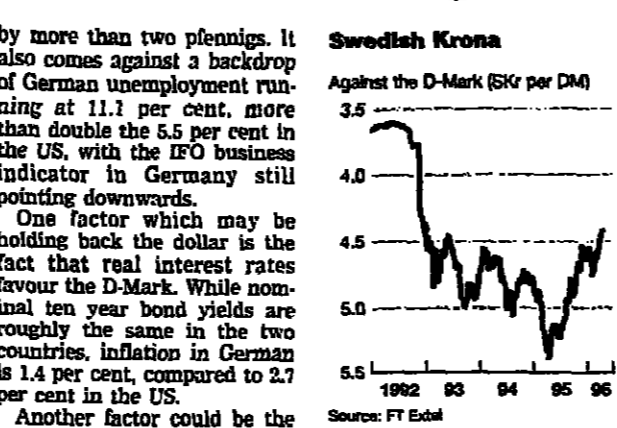
NATIONAL BOND ISSUES

Table of national bond issues with columns for country, issue name, amount, and dates.

MARKETS REPORT

Dollar remains confined to tight trading ranges

By Philip Gawth... The dollar yesterday remained confined within narrow trading ranges, despite the release of strong German M3 figures.



Mr O'Neill cites the current account, relative growth prospects, interest rate expectations, real short rates and the chart position as being strongly dollar positive.

While the main currencies are convulsed by inactivity, some analysts believe the focus over the next 3-6 months could be with other dollar bloc currencies such as the New Zealand, Australian and Canadian dollars.

The dollar closed in London at DM2.4775, from DM2.4762, and at Y106.57, from Y106.315.

In Europe the Swedish krona continued its recent run, closing at SKr4.65 against the D-Mark, from SKr4.518.

Sterling finished the day at DM2.27, from DM2.2619. It is now within sight of DM2.2741, the 1996 high.

The Taiwan dollar continued its recovery as concern over Chinese military exercises waned.

The pound closed in London at \$1.5353, from \$1.5354.

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Another factor which could be holding back the dollar is the fact that real interest rates favour the D-Mark.

Another factor could be the position of the market - investors remain overweight the dollar, although Mr Rosenberg says there has been evidence in recent days of mutual funds selling dollars.

Mr Jim O'Neill, chief currency economist at Goldman Sachs in New York is another who is bullish about the dollar.

Three years ago, assessing a range of variables - PPP, G7, current account - growth, inter-

est rate expectations, short and long term real rates, US portfolio diversification, US portfolio outflows, budget deficits, market position and charts - he found ten of them to be negative for the dollar, and only one positive.

This time round, he finds roughly seven of these factors to be dollar positive, with four negative (and only one of these strongly so).

Although the dollar remains largely range-bound against the D-Mark, Mr Rosenberg maintains that over the last six months it has been in a "gradual, but nevertheless clear uptrend."

A related, but more clear trend is the weakness of the D-Mark, which is more evident against various European currencies than against the dollar.

This can be seen in the strength of currencies like the French franc, Italian lira, Swedish krona and sterling. Mr Rosenberg said traders and investors appeared more confident to short the D-Mark against these currencies than against the dollar.

Short term rates are set by the US Fed and "are about two days' notice."

Three month LIBOR futures (MATF) Paris Interbank offered rate (FF50m).

Three month Eurodollar futures (LIFE) 1000m points of 100%.

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Three month Eurodollar futures (LIFE) 1000m points of 100%.

Three month Eurodollar futures (LIFE) 1000m points of 100%.

Three month Eurodollar futures (LIFE) 1000m points of 100%.

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Three month Eurodollar futures (LIFE) 1000m points of 100%.

CROSS RATES AND DERIVATIVES

Table of exchange cross rates for various currencies.

Table of D-Mark futures (DM 125,000 per DM).

Table of Japanese yen futures (MM Yen 12.5 per Yen 100).

Table of Sterling futures (MM \$25,000 per £).

Table of Euro currency unit rates.

Table of Philadelphia 6/8 options (ES1,250 cents per pound).

Table of Three month Eurodollar (MM \$1m points of 100%).

Table of US Treasury bill futures (MM \$1m per 100%).

Table of Eurodollar options (LIFE) 1000m points of 100%.

Table of Eurodollar options (LIFE) 1000m points of 100%.

Table of Eurodollar options (LIFE) 1000m points of 100%.

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Table of Euro currency unit rates.

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Advertisement for Futures & Options Trading, clearing and execution service 24 hours.

Advertisement for Knight-Ridder's Futures Market Datasheet from \$770.

Advertisement for Want to know a secret? The L.D.S. Gann Seminar.

Advertisement for Spread betting on over 800 markets.

Advertisement for Offshore companies.

Advertisement for The FT Guide to World Currencies.

Advertisement for Petroleum Argus Daily Oil Price Reports.

Advertisement for Citicorp US \$250,000,000 Floating Rate Notes.

Advertisement for Advance Bank Australia Limited.

Advertisement for Banque Nationale de Paris.

Advertisement for JPMorgan.

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Advertisement for Advance Bank Australia Limited.

Advertisement for Banque Nationale de Paris.

Advertisement for JPMorgan.

WORLD INTEREST RATES

Table of world interest rates for various countries and currencies.

EURO CURRENCY INTEREST RATES

Table of Euro currency interest rates for various currencies.

Small text at the bottom of the Euro interest rates table.

LONDON SHARE SERVICE

ALCOHOLIC BEVERAGES

Table of stock prices for alcoholic beverages including companies like Guinness, Heineken, and Carlsberg.

CHEMICALS

Table of stock prices for chemical companies such as ICI, BASF, and Hoechst.

BANKS, MERCHANT

Table of stock prices for banks and merchant companies.

BANKS, RETAIL

Table of stock prices for retail banks.

BREWERIES, PUBS & REST

Table of stock prices for breweries, pubs, and restaurants.

BUILDING & CONSTRUCTION

Table of stock prices for building and construction companies.

DISTRIBUTORS

Table of stock prices for distributor companies.

DIVERSIFIED INDUSTRIALS

Table of stock prices for diversified industrial companies.

BUILDING MATS. & MERCHANTS

Table of stock prices for building materials and merchant companies.

ELECTRICITY

Table of stock prices for electricity companies.

ELECTRONIC & ELECTRICAL EQPT

Table of stock prices for electronic and electrical equipment companies.

ELECTRONIC & ELECTRICAL EQPT - Cont.

Continuation of stock prices for electronic and electrical equipment.

ENGINEERING

Table of stock prices for engineering companies.

EXTRACTIVE INDUSTRIES - Cont.

Continuation of stock prices for extractive industries.

ENGINEERING, VEHICLES

Table of stock prices for engineering and vehicle companies.

Advertisement for Computacenter, featuring the text 'digital PC From the UK's leading provider of distributed IT systems and services. Computacenter'.

EXTRACTIVE INDUSTRIES - Cont.

Continuation of stock prices for extractive industries.

FOOD PRODUCERS

Table of stock prices for food producer companies.

GAS DISTRIBUTION

Table of stock prices for gas distribution companies.

HEALTH CARE

Table of stock prices for health care companies.

EXTRACTIVE INDUSTRIES

Table of stock prices for extractive industries.

HEALTH CARE - Cont.

Continuation of stock prices for health care companies.

HOUSEHOLD GOODS

Table of stock prices for household goods companies.

INSURANCE

Table of stock prices for insurance companies.

INVESTMENT TRUSTS

Table of stock prices for investment trusts.

INV TRUSTS SPLIT CAPITAL

Table of stock prices for investment trusts with split capital.

INVESTMENT TRUSTS - Cont.

Continuation of stock prices for investment trusts.

INVESTMENT TRUSTS

Table of stock prices for investment trusts.

INV TRUSTS SPLIT CAPITAL

Table of stock prices for investment trusts with split capital.

Table of stock prices for various companies.

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Table of stock prices for various companies.

Table of stock prices for various companies.

Table of stock prices for various companies.

Table of stock prices for various companies.

Table of stock prices for various companies.

LONDON SHARE SERVICE

INV TRUSTS SPLIT CAPITAL - Cont.

Table listing investment trusts with columns for name, price, and change.

OTHER INVESTMENT TRUSTS

Table listing other investment trusts with columns for name, price, and change.

INVESTMENT COMPANIES

Table listing investment companies with columns for name, price, and change.

LEISURE & HOTELS

Table listing leisure and hotels companies with columns for name, price, and change.

LEISURE & HOTELS - Cont.

Table listing leisure and hotels companies (continued) with columns for name, price, and change.

LIFE ASSURANCE

Table listing life assurance companies with columns for name, price, and change.

MEDIA

Table listing media companies with columns for name, price, and change.

OIL EXPLORATION & PRODUCTION

Table listing oil exploration and production companies with columns for name, price, and change.

OIL, INTEGRATED

Table listing integrated oil companies with columns for name, price, and change.

OTHER FINANCIAL

Table listing other financial companies with columns for name, price, and change.

OTHER FINANCIAL - Cont.

Table listing other financial companies (continued) with columns for name, price, and change.

PAPER, PACKAGING & PRINTING

Table listing paper, packaging and printing companies with columns for name, price, and change.

PHARMACEUTICALS

Table listing pharmaceutical companies with columns for name, price, and change.

PROPERTY

Table listing property companies with columns for name, price, and change.

SUPPORT SERVICES

Table listing support services companies with columns for name, price, and change.

PROPERTY - Cont.

Table listing property companies (continued) with columns for name, price, and change.

RETAILERS, FOOD

Table listing food retailers with columns for name, price, and change.

RETAILERS, GENERAL

Table listing general retailers with columns for name, price, and change.

RETAILERS, GENERAL - Cont.

Table listing general retailers (continued) with columns for name, price, and change.

SUPPORT SERVICES

Table listing support services companies with columns for name, price, and change.

AIM

Table listing AIM companies with columns for name, price, and change.

SUPPORT SERVICES - Cont.

Table listing support services companies (continued) with columns for name, price, and change.

TELECOMMUNICATIONS

Table listing telecommunications companies with columns for name, price, and change.

TEXTILES & APPAREL

Table listing textiles and apparel companies with columns for name, price, and change.

TOBACCO

Table listing tobacco companies with columns for name, price, and change.

TRANSPORT

Table listing transport companies with columns for name, price, and change.

WATER

Table listing water companies with columns for name, price, and change.

AIM

Table listing AIM companies with columns for name, price, and change.

AIM - Cont.

Table listing AIM companies (continued) with columns for name, price, and change.

AMERICANS

Table listing American companies with columns for name, price, and change.

CANADIANS

Table listing Canadian companies with columns for name, price, and change.

SOUTH AFRICANS

Table listing South African companies with columns for name, price, and change.

GUIDE TO LONDON SHARE SERVICE

Price for the London Share Service delivered by FT Data, a member of the Financial Times Group. Company classifications are listed on page 24 for the FT-SE Actuaries Share Index.

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Vertical text on the left edge of the page, possibly a page number or reference.

FT MANAGED FUNDS SERVICE

FT Cityline Unit Trust Prices are available over the telephone. Call the FT Cityline Help Desk on (+44 171) 673 4378 for more details.

OFFSHORE AND OVERSEAS

BERMUDA (SIB RECOGNISED)

Table listing Bermuda (SIB Recognised) funds including Fidelity Currency Funds Ltd, Fidelity International Growth Fund, and others with columns for fund name, price, and change.

BERMUDA (REGULATED)\*\*

Table listing Bermuda (Regulated) funds including Bermuda Int Investment Manager Ltd, Bermuda Int Investment Manager Ltd, and others with columns for fund name, price, and change.

GUERNSEY (SIB RECOGNISED)

Table listing Guernsey (SIB Recognised) funds including AIG Investment Managers (Guernsey) Ltd, AIG Investment Managers (Guernsey) Ltd, and others with columns for fund name, price, and change.

GUERNSEY (REGULATED)\*\*

Table listing Guernsey (Regulated) funds including AIG Investment Managers (Guernsey) Ltd, AIG Investment Managers (Guernsey) Ltd, and others with columns for fund name, price, and change.

ROYAL BANK OF CANADA (SIB RECOGNISED)

Table listing Royal Bank of Canada (SIB Recognised) funds including Royal Bank of Canada O/S Fd Mgrs Ltd, Royal Bank of Canada O/S Fd Mgrs Ltd, and others with columns for fund name, price, and change.

GUERNSEY (REGULATED)\*\*

Table listing Guernsey (Regulated) funds including ANZ Asset Management (Guernsey) Ltd, ANZ Asset Management (Guernsey) Ltd, and others with columns for fund name, price, and change.

IRELAND (SIB RECOGNISED)

Table listing Ireland (SIB Recognised) funds including AIG Fund Management Ltd, AIG Fund Management Ltd, and others with columns for fund name, price, and change.

IRELAND (REGULATED)\*\*

Table listing Ireland (Regulated) funds including AIG Fund Management Ltd, AIG Fund Management Ltd, and others with columns for fund name, price, and change.

CHEMICAL BANK (SIB RECOGNISED)

Table listing Chemical Bank (SIB Recognised) funds including Chemical Bank Global Fund Administrators Ltd, Chemical Bank Global Fund Administrators Ltd, and others with columns for fund name, price, and change.

ASHBURNHAM GLOBAL FUNDS LTD (1200)

Table listing Ashburnham Global Funds Ltd (1200) funds including Ashburnham Global Funds Ltd, Ashburnham Global Funds Ltd, and others with columns for fund name, price, and change.

JOHN GOWELL MANAGEMENT - CONT.

Table listing John Gowell Management - Cont. funds including John Gowell Management - Cont., John Gowell Management - Cont., and others with columns for fund name, price, and change.

ROYAL BANK OF CANADA (SIB RECOGNISED)

Table listing Royal Bank of Canada (SIB Recognised) funds including Royal Bank of Canada O/S Fd Mgrs Ltd, Royal Bank of Canada O/S Fd Mgrs Ltd, and others with columns for fund name, price, and change.

ROYAL BANK OF CANADA (SIB RECOGNISED)

Table listing Royal Bank of Canada (SIB Recognised) funds including Royal Bank of Canada O/S Fd Mgrs Ltd, Royal Bank of Canada O/S Fd Mgrs Ltd, and others with columns for fund name, price, and change.

ROYAL BANK OF CANADA (SIB RECOGNISED)

Table listing Royal Bank of Canada (SIB Recognised) funds including Royal Bank of Canada O/S Fd Mgrs Ltd, Royal Bank of Canada O/S Fd Mgrs Ltd, and others with columns for fund name, price, and change.

ISLE OF MAN (SIB RECOGNISED)

Table listing Isle of Man (SIB Recognised) funds including AXA Equity & Law Int'l Fund Mgrs, AXA Equity & Law Int'l Fund Mgrs, and others with columns for fund name, price, and change.

ISLE OF MAN (REGULATED)\*\*

Table listing Isle of Man (Regulated) funds including AXA Equity & Law Int'l Fund Mgrs, AXA Equity & Law Int'l Fund Mgrs, and others with columns for fund name, price, and change.

JERSEY (SIB RECOGNISED)

Table listing Jersey (SIB Recognised) funds including AIG Fund Managers (Jersey) Ltd, AIG Fund Managers (Jersey) Ltd, and others with columns for fund name, price, and change.

JERSEY (REGULATED)\*\*

Table listing Jersey (Regulated) funds including AIG Fund Managers (Jersey) Ltd, AIG Fund Managers (Jersey) Ltd, and others with columns for fund name, price, and change.

LUXEMBOURG (SIB RECOGNISED)

Table listing Luxembourg (SIB Recognised) funds including AIG AMRO Funds (Luxembourg), AIG AMRO Funds (Luxembourg), and others with columns for fund name, price, and change.

LUXEMBOURG (REGULATED)\*\*

Table listing Luxembourg (Regulated) funds including AIG AMRO Funds (Luxembourg), AIG AMRO Funds (Luxembourg), and others with columns for fund name, price, and change.

Handwritten note: "done in 12/16"

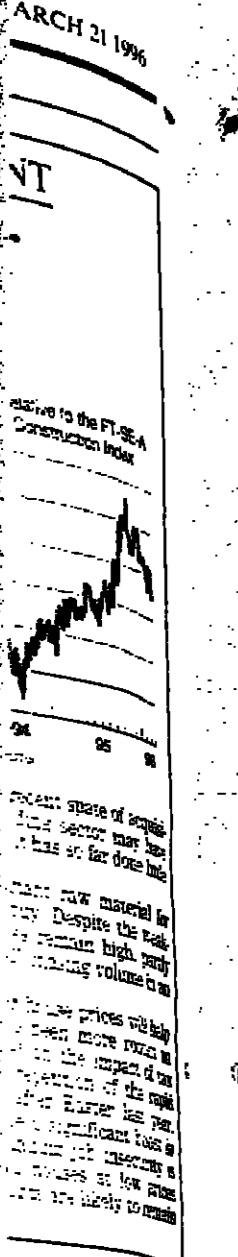
OFFSHORE JURISDICTIONS



FT MANAGED FUNDS SERVICE

FT Cityline Unit Trust Prices are available over the telephone. Call the FT Cityline Help Desk on (+44 171) 873 4378 for more details.

Main table containing financial data for various funds, including columns for fund names, prices, and performance metrics. Includes sub-sections like 'OTHER OFFSHORE FUNDS' and 'OFFSHORE INSURANCES'.



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US buy

e Teepak

credibility

GROUP PLC

MANAGED FUNDS NOTES
From 1st to 31st March 1996...
The FT Cityline Help Desk is available on (+44 171) 873 4378.

LONDON STOCK EXCHANGE

MARKET REPORT

Mid 250 outpaces the leaders and hits new peak

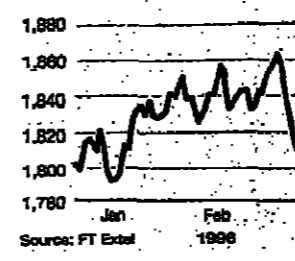
By Steve Thompson, UK Stock Market Editor
Hopes that London's stock market would take a strong run at 3,700 on the FT-SE 100 scale were dashed by a combination of factors yesterday...

steep fall on Wall Street at the start of trading yesterday kept UK shares on the down slope.
The performance was made to look all the more pedestrian after the gills market staged a rapid and determined rally to close almost a full point ahead on the day...

The big winners behind the FT-SE Mid 250's move to a new peak included Weir Group, the engineering company. Dorling Kindersley, the publishing group, Wessell, the conglomerate, and Hammons, the property group.
Wall Street's disappointing close overnight - the Dow Jones Industrial Average settled 14 points down on balance after crossing the 5,700 level at one point - also worried...

on retail sales and M4 money supply for February, triggered a modest uptick which drove the FT-SE 100 into positive ground in the early afternoon and helped to sustain the FT-SE Mid 250.
The weak start by Wall Street, which fell more than 40 points shortly after the opening, came in the wake of a profits warning from computer group Digital Equipment...

FT-SE-A All-Share index



Equity shares traded

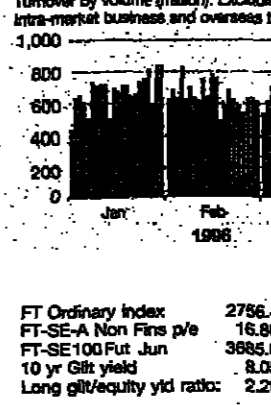


Table showing indices and ratios for FT-SE 100, FT-SE Mid 250, FT-SE 350, FT-SE A All-Share, and FT-SE A All-Share yield.

Table showing best performing sectors (Banks, Electricity, Household Goods) and worst performing sectors (Telecommunications, Oil, Mineral Extraction).

ICI tops US buy list

Growing US pressure to shift away from defensive stocks and into cyclical was reflected by the diverging prices of ICI and leading pharmaceuticals.
ICI improved 1 1/2 to 942p. While Zeneca slipped 1 1/2 to 1343p as one US brokerage was said to have failed to place all of a line of 3m shares.

closed 7 1/2 off at 244 1/2p in 17m traded, the day's worst performing Footsie stock.
BT retreated 7 1/2 to 344 1/2p. Most brokers are convinced that Otel is determined to lower BT's earnings profile...

Scotland slipped 8 to 537p, with pressure from a line of 5m shares that one broker was said to be hawking around the market.
However, dealers said take-over speculation was bubbling around the stock again and some expected the shares to bounce once the big block of shares was sold.

per cent over the past four months.
Yesterday, the shares shrugged off a firmer crude oil price to slip 9 1/2 to 55p, while Shell Transport lost 4 at 857p.

Govett handled the Hanson disposal of 4.3m shares. These changed hands at 376p and 277p.
SBC Warburg upgraded its Wassell profits estimates for the current year by 5 per cent to 563m...

FUTURES AND OPTIONS

Table showing FT-SE 100 INDEX FUTURES and FT-SE MID 250 INDEX FUTURES with open, high, low, and close prices.

Table showing FT-SE 100 INDEX OPTION and EURO STYLE FT-SE 100 INDEX OPTION with various contract specifications.

Telecoms hit

The latest consultative document on pricing from telecoms regulator Oftel cast a cloud over the sector, with BT, most cable groups and Vodafone all moving lower.
Vodafone was hit hardest, although Oftel referred fairly obliquely to the mobile phone industry and had no immediate intention of bringing mobiles into its price net...

Allied/Bass hints

Spirits group Allied Domecq was one of the day's talking points following a press report suggesting that Bass is negotiating to buy Allied's 50 per cent stake in Carlsberg-Teley, the brewing joint venture with Carlsberg.

Financial Times Equity Indices

Table of FT-SE indices including Ordinary Share, Dividend Yield, P/E ratio, and P/BV ratio.

London market data

Table showing market volume, total value, and average price for FT-SE.

FT Gold Mines Index

Table showing FT Gold Mines Index performance by region and company.

Trading Volume

Large table listing trading volume for various companies and indices, including ASDA Group, British Airways, and others.

Advertisement for Business Forum of the Black Sea Economic Cooperation, BUCHAREST - 25/28 April 1996. Includes details on registration and contact information.

Advertisement for YEN 15,000,000,000 AKTEBOLAGET SPINTAR (SWEDMORTGAGE) Subordinated Floating/Variable Rate Notes due 2002.

Advertisement for COMPAGNIE BANCAIRE FRF 800,000,000 FLOATING RATE NOTES DUE 1997.

Advertisement for PARAMOUNT BED CO., LTD. Notice to the Warrant Holders of the Company. Details regarding the stock split and subscription price.

Advertisement for COMPAGNIE BANCAIRE FRF 1,000,000,000 Floating Rate Notes due 1997.

Advertisement for LEVIEN INTERNATIONAL. Details regarding financial services and international transactions.

Large table containing FT-SE Actuaries Share Indices and FT-SE Actuaries All-Share indices. Includes columns for index value, change, and P/E ratios.

WORLD STOCK MARKETS

Main table of world stock markets including sections for EUROPE, ASIA, PACIFIC, US INDICES, and AUSTRALIA. Each section lists various stock indices and their performance for the day.

Advertisement for Rockwell avionics featuring the text 'Every major world airline flies with Rockwell avionics' and the Rockwell logo.

INDICES table showing various regional and global indices such as ARGENTINA, AUSTRALIA, CANADA, and EUROPE with their respective values and changes.

US INDICES table detailing major US market indices including Dow Jones, S&P 500, and NASDAQ, along with their performance metrics.

Table of US Active Stocks listing individual stock symbols, their current prices, and percentage changes.

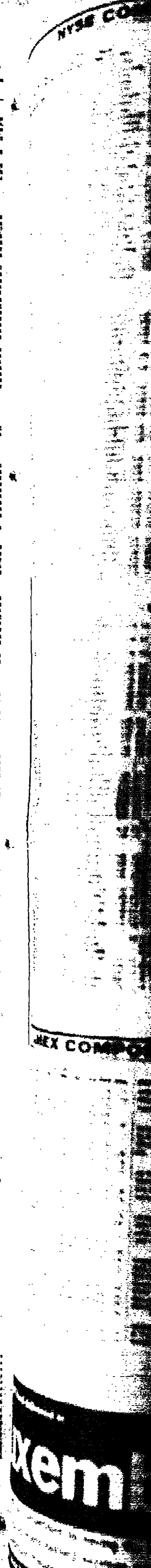
Table of Most Active Stocks listing the top-performing and most-traded stocks in the market, including their closing prices and volume.

Footnote containing market data sources, copyright information, and contact details for the publisher.

NEW YORK STOCK EXCHANGE COMPOSITE PRICES

Main table containing stock prices for various companies, organized into columns with headers like 'NEW YORK STOCK EXCHANGE COMPOSITE PRICES'. Includes sub-sections for 'NEW YORK STOCK EXCHANGE', 'NASDAQ', and 'AMERICAN STOCK EXCHANGE'.

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Continued on next page

4 pm close March 21

NYSE COMPOSITE PRICES

Table of NYSE Composite Prices with columns for High, Low, Close, and Change. Includes sub-sections for 'Continued from previous page' and 'AMERICAN STOCKS'.

Table of NYSE Composite Prices with columns for High, Low, Close, and Change. Includes sub-sections for 'INTERNATIONAL STOCKS', 'BONDS', and 'COMMODITIES'.

Table of NYSE Composite Prices with columns for High, Low, Close, and Change. Includes sub-sections for 'NEW YORK STOCKS', 'MIDWEST STOCKS', and 'SOUTHWEST STOCKS'.

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Table of AMEX Composite Prices with columns for High, Low, Close, and Change. Includes sub-sections for 'AMERICAN STOCKS' and 'INTERNATIONAL STOCKS'.

Table of AMEX Composite Prices with columns for High, Low, Close, and Change. Includes sub-sections for 'BONDS' and 'COMMODITIES'.

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NASDAQ NATIONAL MARKET

Table of NASDAQ National Market with columns for High, Low, Close, and Change. Includes sub-sections for 'AMERICAN STOCKS' and 'INTERNATIONAL STOCKS'.

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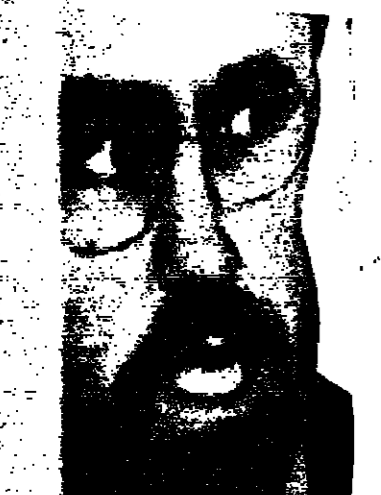
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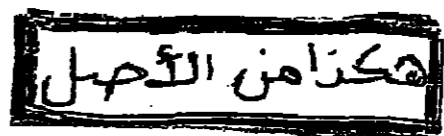
Additional text and contact information for the Luxembourg advertisement.

Advertisement for 'Income at Risk' with a line graph showing a 22% increase and '163m for year'.



Advertisement for 'Telekom' with a stylized logo and text.

Advertisement for 'Luxembourg' with a stylized logo and text.



NASDAQ NATIONAL MARKET

Main table of NASDAQ National Market prices with columns for High, Low, Close, and Change. Includes sub-sections for 'AMERICAN STOCKS', 'INTERNATIONAL STOCKS', 'BONDS', and 'COMMODITIES'.

AMERICA

Warning from Digital hits technology sector

Wall Street A profits warning from Digital Equipment, the US computer group, sent technology shares sharply lower in midday trading, pulling other sectors down as well.

nology companies, IBM shed 98% to \$114, Hewlett-Packard lost 8% at \$94. Compaq fell 2% to \$77, Dell Computers slid 1 1/2% to \$31 and Gateway 2000 lost 1 1/2% at \$36.

Analysts noted that oil and gas prices had continued to rise to levels unseen since the Gulf War on falling North American inventories, while metals were also the beneficiary of low inventories and high demand.

EUROPE

Continental airline stocks gain height

Airlines had seen individual signs of activity this week, but Lufthansa, KLM and Swissair all gained height yesterday. Lufthansa rose DM5.50 to DM24.40 for a two-day gain of DM2.40 ahead of today's 1995 preliminary results.

FRANKFURT fielded a February M3 growth rate of 1.26 per cent, analysts said that the Bundesbank would hesitate now before cutting interest rates in the short term. Nevertheless, the Dax index rose on the day, by 6.99 to an index of 2,491.78 following a lower than expected US retail sales rise of 0.8 per cent in February.

FT-SE Actuaries Share Indices

Table with columns: Mar 20, Weekly changes, Open, 10.30, 11.00, 12.00, 13.00, 14.00, 15.00, Close. Rows include FT-SE Europe 100, FT-SE Europe 200, FT-SE Europe 300, FT-SE Europe 400, FT-SE Europe 500.

another Sfr30 to Sfr3,880. UBS bucked the mostly negative trend in financials, appreciating Sfr7.1 to Sfr1,332 in further turmoil driven trade. One suggestion yesterday was that the bank wanted to build links to Merrill Lynch.

Buenos Aires tepid on tax cuts

Buenos Aires gave a lukewarm reception to a tax cutting package which the economy minister Mr Domingo Cavallo said would lower interest rates and help to pull the country out of recession.

index was 15.30 below the previous day's close at 2,988.54. SAO PAULO was weak in midday trade as investors awaited the outcome of a wrangle between the presidency and congress over the creation of an inquiry into the banking system.

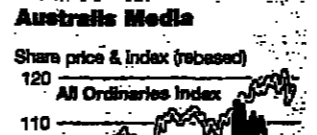
The overall index ended 12.2 lower at 6,633.6, industrials slipped 7.6 to 6,230.3 and golds declined 16.0 to 1,722.5.

ASIA PACIFIC

Government backing lifts Taipei and Seoul

Government-backed support lifted equities in Taiwan and South Korea, and New Zealand, too, had a good day. Tokyo and Bombay were closed.

liners still fell prey to profit-taking as the composite index gained 4.37 at 1,126.50 in volume of some 197m shares. A dealer said the weekend Taiwanese presidential elections and Malaysia's Bank Negara report next week were keeping investors sidelined.



for the six months ended December 31, and accumulated losses of A\$228.85m at end-1995. The company started its satellite pay television operations in January of last year.

EMERGING MARKETS: IFC WEEKLY INVESTABLE PRICE INDICES

Table with columns: Market, No. of stocks, Mar. 15 1996, Dollar terms % Change over week, % Change on Dec '95, Local currency terms % Change over week, % Change on Dec '95. Rows include Latin America, Argentina, Brazil, Chile, Colombia, Mexico, Peru, Venezuela, Asia, China, South Korea, Philippines, Taiwan, China, India, Indonesia, Malaysia, Pakistan, Sri Lanka, Thailand, Euro/Mid East, Greece, Hungary, Jordan, Poland, Portugal, South Africa, Turkey, Zimbabwe, Composite.

Russian equities have had admirers for a long time, although foreign commitment to the market has seen a number of false dawns. Moreover, the market has been on the slide in recent weeks, falling by about 14 per cent since the start of the year in extremely low volume, writes Michael Morgan.

FT-SE ACTUARIES WORLD INDICES

Table with columns: NATIONAL AND REGIONAL MARKETS, US Dollar, Day's % Change, Pounds Sterling, Yen, DM, Local Currency, Local % Change, Gross Yield, US Dollar, Day's % Change, Pounds Sterling, Yen, DM, Local Currency, Local % Change, Gross Yield. Rows include Australia, Austria, Belgium, Brazil, Canada, Denmark, Finland, France, Germany, Hong Kong, India, Japan, Korea, Malaysia, Mexico, Netherlands, New Zealand, Norway, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, USA, Americas, Europe, North America, Pacific Basin, Euro-Pacific, North America, Europe, Pacific Basin, World Ex, World Ex, World Ex, World Ex.

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# UK TELECOMMUNICATIONS MARKET

## A turbulent 12 months

The issue dominating discussions across the UK industry and beyond is the regulation of BT's prices between 1997 and 2001. Alan Cane reports

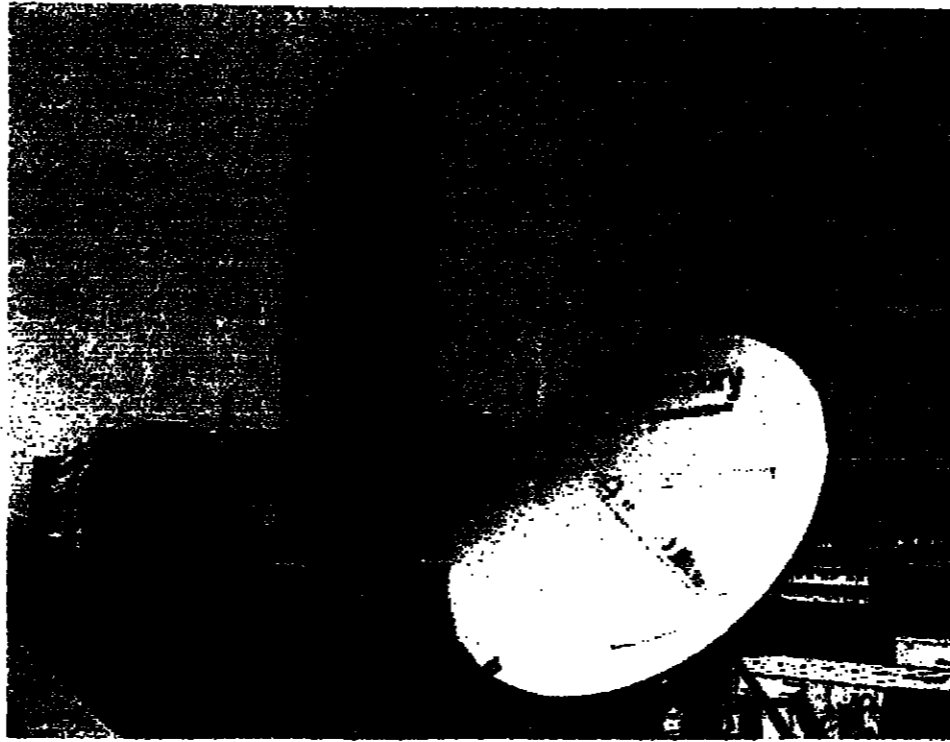
Since the privatisation of British Telecommunications more than a decade ago, the telecoms sector in the UK has seen dramatic changes, catalysed by the emergence of more than 150 new competitors. The past 12 months, however, have been turbulent even for such a volatile industry.

BT and Mr Don Cruickshank, the industry watchdog, have clashed publicly and noisily over regulation. The mobile phone sector has grown massively and shown early signs of maturity: the flotation of Orange Communications seems likely to provide a new and lively member of the FTSE 100. And Cable and Wireless, the UK's oldest national telecoms company, looks vulnerable to sell-off or merger after an extraordinary boardroom row between its former chairman and chief executive. Talks with BT over a proposed "reverse takeover" are currently suspended.

Some developments have met with wholehearted approval throughout the industry. The much maligned Access Deficit Contributions (ADCs), a form of compensation to BT for maintaining a nationwide network (but in fact paid only by Mercury Communications) are being abolished as part of a package of regulatory changes which will give BT new price flexibility. The regulator has agreed to scrap controls on BT's line rental charges, allowing it to "re-balance" higher line rents with lower call charges. A

family of new charge packages is expected later in the year. The government is expected to end the "international duopoly" which gave BT and Mercury the sole right to transmit international calls over their own networks. AT&T, Easnet, Colt and MFS are among the competitors in the business market which are expected to seek international licences.

The issue dominating discussions across the UK industry and beyond, however, is the regulation of BT's prices in the five years between 1997 and 2001. There are widespread fears that the climate for investment in the UK could worsen if the regulator squeezes BT's profitability. BT's prices are the benchmark for the rest of the industry. If BT has to struggle to make a reasonable return, its competitors will fare worse. AT&T, the largest US operator, is only one of a number of overseas operators holding fire on its investment in the UK until the pattern is clearer. As the former monopolist, BT's charges for services where competition is not yet fully developed are regulated to protect customers, to prevent predatory pricing and to encourage efficiency.



Mercury Communications telecoms centre in London will the 'international duopoly' end? Picture: Trevor Harpman

Mr James Golob, telecoms analyst at Deutsche Morgan Grenfell, said in an influential research note earlier this year: "If BT is capped at a rate of return between 9.2 per cent and 13.4 per cent, then the rest of the UK telecoms industry will struggle to achieve a return in double figures. Such a low return can hardly be worth pursuing, given the risks and the required scale of investment."

BT complains that Mr Cruickshank is treating it as if it were a utility such as gas or electricity where the risks are

low, with corresponding returns. It argues that the telecoms business involves high investment with uncertain prospects of return. Mr Peter McCarthy-Ward, head of BT's price review team, says: "We do not think this is a low risk business. It has characteristics very different from the gas or water industries. Ofel's proposals, by concentrating on price and price alone, may lead to levels of return that deter investment."



A helicopter lays cable for the radioactive incident monitoring network for which BT's Global Network Services will provide key elements

International telephone charges by country 1995

Country	Cost of a three minute call to New York, US and Canada	Cost of a three minute call to London, at April 1995 prices	Average of Mercury and BT rates
Germany	2.60	2.55	2.57
Belgium	2.55	2.50	2.52
Italy	2.50	2.45	2.47
Netherlands	2.45	2.40	2.42
France	2.40	2.35	2.37
Australia	2.35	2.30	2.32
USA	2.30	2.25	2.27
Sweden	2.25	2.20	2.22
Canada	2.20	2.15	2.17

Source: National Utility Services

month in a published statement: "If Ofel regulates BT in such a way that shareholders cannot earn a sufficient return on their capital, they will not invest and customers will suffer. It is, therefore, not in the customer's interests and nor is it part of Ofel's objectives to penalise BT's shareholders."

However, this does not mean that BT should be able to earn monopoly profits for its shareholders by exploiting customers or seeking to exclude competitors, through its powerful market position. A decision on the value of X and the services to be included in the basket is expected towards the end of the summer, although Mr Cruickshank was expected this week to give further hints of his intentions. If BT cannot agree with Mr Cruickshank's decision, the issue will be referred to the Monopolies and Mergers Commission for adjudication.

This is very much a last resort. An MMC investigation takes about nine months to pursue, involving senior management on both sides in costly and time-consuming preparation. Until last year, it had been used only once - and

then by mutual agreement - to ensure the closure of dubious "chat" lines. In 1995, however, BT could not agree with Mr Cruickshank's decision that it should bear the full burden of the costs of number portability - the right of a customer to retain a familiar telephone number when changing operators. In that case, the MMC largely backed Mr Cruickshank.

A continuing problem for BT, seeking relief from the attentions of the regulator, and for Ofel itself, is the failure of new market entrants seriously to dent BT's market dominance. Cable television companies, allowed to offer voice telephony since 1991, are beginning to cut into BT's residential market share after a slow start. Some 50,000 BT customers a month are now moving across, prompting BT to offer a range of new pricing packages. Penetration should be helped by number portability expected to be available this year. The cable operators are investing massively to create an information superhighway, at least within their franchise areas. There is no sign yet of a serious attempt to form alli-

### IN THIS SURVEY

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● PCS operators: National coverage is the main issue ● Interview: Peter Howell-Davies, Mercury's chief executive Page III

● Operator profiles: Mercury, Easnet, AT&T, BT Page IV

● Mobile telephony: A decline for digital: Operators have already acted to discourage new subscribers to the analogue networks ● Radio access: Telephones take to the air: Next week, the UK's first fixed service based on radio technology will be launched Page V

● Other licensed operators: Confidence abounds: The proliferation of alternative operators points to a buoyant, highly competitive market where demand is strong Page VI

● The manufacturers: Research indicates that the market for digital exchanges in western Europe will be \$7.5bn in 1996, rising to \$8bn in 1999 Page VII

Production Editor: Philip Sanders

According to Mr David Lewin, a telecoms analyst with the London consultancy Ovum, mobile operators could have a 50 per cent market share by the year 2000. Mobile phone penetration measured as the number of phones per head of population would equal fixed line penetration by 2002, he suggested.

BT has a majority stake in the mobile operator Cellnet, but the implication is that its market share could fall sharply irrespective of the efforts of more conventional competition or the efforts of the regulator.

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**II UK TELECOMMUNICATIONS MARKET**

Regulation: by Alan Cane

**Time for a lighter approach**

**In essence, the telecoms watchdog could abandon the role of rulemaker to become market policeman enforcing competition law**

Telecommunications regulation in the UK is at a crossroads. In the next few years, masses of weighty legislation may be swept away in favour of a simpler, competition-driven environment. If that is, the regulator and the UK's larger telecoms operators can agree on the way to proceed.

Over the past decade, regulation has been responsible for substantial reductions in the prices paid by business and residential customers. It has also encouraged new competitors to take on British Telecommunications in virtually every sector of the business from local services to payphones.

As a consequence, the UK boasts the most regulated yet most competitive telecoms market in Europe. The regulator, Mr Don Cruickshank, director-general of the Office of

Telecommunications (OfTel), would like this situation to change. He wants to move away from today's detailed regulation while simultaneously promoting a competitive environment.

As he said in a speech last year: "There needs to be someone with the duty of promoting effective competition. This means working on a whole range of micro issues to enable regulation progressively to melt away as the emergence and rooting of effective competition enables market forces to take on the role which they play in competitive markets."

A recent OfTel paper on fair trading explains: "OfTel considers that the time is now right for a clear move towards a regulatory approach which is at the same time lighter and firmer; lighter in that it imposes fewer *a priori* prescriptive rules but firmer in that it puts the onus clearly on

dominant operators to ensure they do not indulge in anti-competitive behaviour."

In essence, the telecoms watchdog would abandon the role of rulemaker to become market policeman enforcing competition law.

It is an ambition shared by BT. Sir Iain Vallance, BT chairman, said last year: "My view is that the regulator ought simply to apply the rules, to act as a referee objectively and impartially."

Despite this agreement on the ends, BT and the regulator are poles apart on the means. Mr Cruickshank wants broad powers to be able to identify, put an end to, and punish anti-competitive behaviour. BT says this would give him draconian powers of judge, jury and executioner in his own court and deny it the right of a final appeal to a higher authority.

One problem at present is that competition law in the UK is weak. It cannot be relied on to halt wrongdoing and provide remedies for companies damaged by such actions.

Furthermore, competition in telecoms has not developed at the rate expected when the government established, first, a duopoly of BT and Mercury Communications in the early



Don Cruickshank currently in consultations with the industry



Sir Iain Vallance: "The regulator ought simply to apply the rules"

1980s, and then opened the market to all comers in the 1990s.

BT, in fact, retains an overwhelming dominance. When it was privatised it had virtually 100 per cent of the UK telecoms market. More than a decade later, its share has fallen to only a little under 90 per cent.

There are a number of reasons for this. Mercury as a competitor did not always adopt the most effective strategies. BT, at the same time, shed thousands of staff, cut prices and implemented a

raft of attractive market strategies. From being a sluggish, state-owned behemoth, it became a focused, aggressive operator more rapidly than its competitors might have believed possible.

It also has the advantage of ownership of the "local loop", the final connection between the exchange and the office or home. Only for the largest customers does it make economic sense for BT's competitors to build their own local loop.

For these reasons, Mr Cruickshank believes it is still

necessary to give BT's competitors help in establishing themselves. BT argues against that view: "That the role of the regulator is to ensure that BT trades fairly is common ground between us; but handicapping us in order to create room for our competitors is emphatically not," Sir Iain says.

Regulation in the UK is largely the regulation of BT. Its licence runs to many closely-typed pages. Because of its size and dominance, it is generally considered to be the only operator which could indulge in anti-competitive behaviour. Other, smaller, operators are awarded what are known as "slimline" licences with less onerous conditions. They do not, for example, have to publish price changes in advance.

The opportunities for anti-competitive behaviour for a dominant operator such as BT are substantial. Because every other operator at some time has to interconnect with BT because of the ubiquitous nature of its network - each requiring an interconnect agreement - there are countless opportunities to delay negotiations or delivery of product or services, causing investment uncertainty for competitors and forcing them to change the timing of their business plans.

An example is number

portability, the right of a customer to retain the same number when changing operators. It is essential to the development of a competitive market place. Businesses, in particular, are loath to lose a well-recognised local number. Number portability is not straightforward; switches have to be re-programmed and calls diverted, all of which has a measurable cost.

BT agreed with the principal of number portability but disagreed with the regulator's view that it (or its shareholders) should bear the full burden of the cost.

The issue was eventually referred to the Monopolies and Mergers Commission which decided that BT should bear the lion's share of the cost. BT essentially lost the war, but

managed to keep the skirmishing alive for some five years. Its arguments were perfectly legal, but at the same time it prevented its rivals - the cable, television companies and Mercury Communications especially - from benefiting from number portability over that period.

This is not to suggest that BT routinely engages in unfair practices; the line between ordinary competitiveness and unfair trading can be hard to define, as Sir Peter Bontad, BT's recently-appointed chief executive, has argued.

The question will be resolved later this year. Mr Cruickshank is at present consulting with the industry. If the two sides cannot agree, the consequence will be another referral to the MMC.

The cable alternative: by Raymond Snoddy

**Revenues from telephony soar**

**The cable industry is poised to introduce a number of improved services, including a move to interactivity**

well as increased competition, in 1984 the percentage of BT call failures was 2 per cent. By 1995, the industry average was 0.2 per cent. Fault repair within two days increased from 87 per cent to 95 per cent and installations on time rose from 60 per cent to 95 per cent.

The cable industry in the UK tends to become exasperated when critics continually point to disappointing performances in cable television.

Surely there must be something wrong when the percentage of consumers actually subscribing to their television packages has been stuck stubbornly at about 22 per cent for the past three years, the critics say.

The reality, the cable industry argues, is that billions of pounds are being invested in creating a superhighway which will meet the UK's future communication needs - and that now is the time to begin the business of marketing cable nationally with a £12m campaign. And anyway, the cable industry argues, in cable franchises already one in three homes is taking a service either for television, telecommunications, or a combination of both.

Increasingly, it is telecommunications that is the cable success story, with subscriptions rising at a far faster rate than television.

In the year to January 1 1996, the number of cable telephone lines installed grew

According to figures from OfTel, there has been an even more dramatic change in real residential telephony charges between 1984 and 1995. Rental



John Killian: supports liberalisation and increased competition

charges have risen by 8.6 per cent but connections fees have dropped by 40.9 per cent, local calls are down by 43.9 per cent, long distance by 78 per cent and international by 53.7 per cent.

The cable industry is also poised to introduce a number of improved services, including a move to interactivity.

**Videotron, the largest cable group in London, has introduced its own ISDN**

from 717,586 to 1,419,819. There was a similar rise in business lines from just over 68,000 to 132,571.

The growth in the number of lines installed has already been translated into significant revenues for the cable companies.

In 1995, for example, TeleWest, the largest UK cable company, increased its residential telephony revenues by 155 per cent from £23.5m to £57.8m as its customer base grew to nearly 431,000 lines. Business telephony revenues nearly doubled from £8.8m in 1994 to £17.4m last year.

At General Cable, another of the big participants in the UK, telephony last year accounted for more than 67 per cent of total revenues, with residential customers spending an average of £288 a year and each business line producing average revenues of £988.

Already there are more than 145 cable telecommunications licences and the cable industry is optimistic that it will soon be able to increase the rate at which it can entice consumers away from BT and Mercury because of the arrival of "number portability" which will enable customers to take their old number with them when they switch to cable. Number portability should begin to happen in the next six months and should be universally available within a year.

"Consumers' ability to retain their telephone number as they move to cable will remove a barrier for many people wishing to subscribe to the benefits of cable telephony and the services offered by TeleWest," the company said recently.

Mr John Killian, president and chief executive of Nynex Cablecomms, the second-largest cable operator in the UK, believes that liberalisation and increased competition in the telecommunications market has been of enormous benefit to the consumer.

While technical change has obviously been a factor, as

Videotron, the largest cable group in London, has recently introduced its own ISDN service offering high quality lines with customers offered free installation. A previous initiative, a "free local calls" scheme, was launched two years ago and so far more than 9m free voice and data calls have been made by subscribers.

Sophisticated telecommunications services will become more common and General Cable is among the cable companies which will be offering ISDN services later this year.

The three largest operators - TeleWest, Nynex and Bell Cablemedia - have joined together to fund a laboratory to develop a range of interactive products to be introduced on cable.

One of the obvious opportunities is to offer fast access to the Internet and trials have already taken place. A first service, with conventional speed modems, is expected to be introduced later this year.



Bob Wright: believes high-speed internet access could be the saviour

Mr Bob Wright, president of NBC, the US network company which has a joint venture with Microsoft to launch new forms of interactive television, believes such high-speed Internet access could be the saviour of the European cable industry.

Some telecommunications analysts believe that the cable companies have a window of opportunity of perhaps two or three years to develop their telephone businesses. After that, intense competition in the market place could continue to squeeze cable's present price advantage.

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INTERVIEW Mercury chief executive



Peter Howell-Davies: 'I am focusing strongly on the quality of service'

Key areas for improvement

Mr Peter Howell-Davies's reintroduction to Mercury Communications was traumatic to say the least. He had been deputy chief executive of Hongkong Telecom for only two years when the call came last summer to take control of the company he had helped nurture through its early stages more than a decade earlier.

He sets great store by his inside knowledge

The imperative for Mercury had to be a period of stability in the care of a safe pair of hands. Mr Howell-Davies, now 52, has been a C&W employee all his working life. He joined in 1962 when the company was still a government department and he was managing director of Mercury in 1990.

do' mentality, but we have to ensure that the basic services go in when the customer wants them, to a price they find acceptable, every single time. One indication of the emphasis on quality is the appointment of Mr Christopher Chadwick from the Leeds Building Society as customer service director.

PCS operators: by Christopher Price

National coverage is the main issue

Digital offers better quality, greater capacity and lower service costs than analogue

When Orange floats on the London and New York stock markets later this month, there will be one message which the UK's youngest mobile phone group will have left embedded in investors' minds: coverage.

roll-out," says Mr Richard Goswell, managing director of One-2-One.

The group will have some catching up to do, however. Orange, which came into the market in 1994, has achieved 85 per cent coverage, while Vodafone and Cellnet, which have been operating for more than 10 years, have more than 95 per cent.

competitors," says Mr Goswell. Mr James Ross, telecoms analyst at Hoare Govett, believes One-2-One's regional expansion policy has helped establish the company's strong brand image as a value-for-money operator which will



Goswell: 'Coverage has become a major issue at the point of sale'

has tried to establish a variety of tariffs and incentives in order to differentiate itself - and thus make itself more attractive - to potential customers.

One-2-One has perhaps been the most prominent in promoting its low-cost tariffs, emphasising its free local calls at weekends and evenings, although the latter have recently finished due to what Mr Goswell calls the end of the "launch phase."

pressure on telephone handset prices as the operators offer subsidies to dealers in order to offset tariff rate differences.

Another area of differentiation has been in service. Unlike Cellnet and Vodafone when they launched, One-2-One and Orange were allowed to contract customers directly. This has enabled both companies to build their brands through direct sales and advertising, and also to benefit from improved cash flows, helped by putting customers on direct debit, for example.

the service providers who own the customers, not the network operators.

Due to their head start, Vodafone and Cellnet each have about 41 per cent of the mobile market, with Orange and One-2-One sharing the remainder almost equally. However, the market is divided between the old analogue service, offered by the two original operators, and digital, offered by all four companies.

Analysts believe there will be sufficient room in the market

used to have to sell through dealers, are also now able to contract customers directly. However, most of their business is still conducted through service providers such as Talkland and Peoples Phone. These sell air time to dealers and customers, arranging their own tariff structures, discounts and special offers. Crucially, it is

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**IV UK TELECOMMUNICATIONS MARKET**

**OPERATOR PROFILE Mercury**

# The pressure is mounting

Many in the telecommunications industry believe Mercury has only recently come to terms with the full implications of the government's duopoly review, published five years ago this month, which opened up the UK's fixed telecoms market to competitors other than Mercury and BT.

Mercury was criticised for continuing to behave after the 1991 review as if only itself and BT were present in the market place and attempting to compete with its larger rival only on price rather than on developing innovative new services.

The low point for the carrier was certainly December 1994 when, following disappointing interim results, an extensive restructuring was launched with the result that about one-third of its 11,400 workforce left and its directory inquiry, payphones and customer equipment activities were either closed or sold.

In addition, it also severely cut back its activities in the residential telephony market. Matters hardly seemed to improve with the resignation in September last year of chief executive Duncan Lewis, brought in from parent Cable & Wireless to supervise the 1994 restructuring. The departure of Mr Lewis, Mercury's third chief executive to leave in 3½ years, followed disagreements with members of the C&W board over strategy.



Storms ahead: (left to right) Duncan Lewis with Lord Young and James Ross in November 1994. *Trevor Hutton/PA*

Then, only two months later, C&W's executive chairman Lord Young and chief executive James Ross both left after an internal power struggle. The publication this month of a government proposal to end Mercury and BT's duopoly on facilities-based international services, which had been preserved by the 1991 review, intensifies pressure on Mercury to reassess its future direction.

**Richard Handford**

**OPERATOR PROFILE BT**

# Not yet master of its fate

Only after merger talks between British Telecommunications and Cable and Wireless, the UK's two largest telecoms companies, broke down earlier this month did the full ingenuity of their spectacularly novel plans emerge.

The acquisition would have created a world-class telecommunications giant outstripping in revenues only by NTT of Japan, AT&T of the US and Deutsche Telekom of Germany.

Cable and Wireless, with a market capitalisation of about \$10bn, would have acquired BT, worth more than twice as much, through a reverse takeover.

BT had originally approached C&W with a view to merging with the smaller company. Under Hong Kong stock exchange rules, however, BT would have had to buy out minority shareholders in Hongkong Telecom, in which C&W holds a 57.5 per cent stake.

The deal fell through because of disagreement over the value of C&W and difficulties in Germany, where both companies have strategic alliances. The prize for BT would have been Hongkong Telecom, the most profitable of C&W's operations and key to an area where the UK operator is under-represented.

The collapse of the deal leaves the UK's dominant operator still to build an appreciable presence in the Asia Pacific region but with its reputation for audacity in pushing forward its global strategy unimpaired.

BT, privatised since 1984, has transformed itself from a stodgy, national utility through aggressive strategies at home and abroad and close attention to costs. Some 100,000 jobs have been lost over the past five years. It is now a serious contender for the role of Europe's leading telecoms company. Some measures suggest it is within 10 per cent of the performance of the world's most efficient operators.

A further pointer to the future was the appointment at the beginning of this year of Sir Peter Bonfield, formerly chairman and chief executive of the computer company ICL, as chief executive. Sir Peter's appointment is reckoned to herald a new phase in the development of BT from a telephone company to a telecoms group able to provide a broad range of advanced services including multimedia and interactive services such as video-on-demand and home shopping. It is already experimenting with video games played across the network from kiosks.

**Alan Cane**

**OPERATOR PROFILE Energis**

# Bright sparks on the grid

Energis, launched 18 months ago in a blaze of publicity as the UK's third national carrier, has since settled down to a more pragmatic approach to the UK telecommunications market.

The carrier, which is owned by the National Grid Company, has pulled back from ambitious plans to become an all-round competitor to BT and Mercury in favour of concentrating on business customers.

Energis has dropped plans to provide long-distance services for consumers and to sell capacity on its network to other carriers, acting as a carrier's carrier, in favour of developing its business services such as virtual private networks, calling cards and high-speed data applications. It currently serves around 20 companies in the UK with these kind of services.

The more cautious approach appears to have evolved since a restructuring last summer when 60 out of the carrier's 400-500 strong workforce were cut, including six top executives. The cuts followed the departure of former chief executive David Dey after reported clashes with chairman Gordon Owen.

The narrower strategy is confirmed by new chief executive Mike Grabner, who joined Energis eight weeks ago from BT where he was director European operations. After the departure of Dey, Owen held both the positions of chairman and chief executive as an interim measure.

**OPERATOR PROFILE AT&T**

# A giant enters on tiptoes

There was a general feeling of anti-climax when AT&T, the largest telecommunications operator in the US, finally revealed its long-awaited strategy for breaking into the UK market last month.

Only three months earlier, AT&T had announced a radical overhaul of its monolithic business into three highly focused divisions, a move that was expected to make the US giant a potent threat in Europe.

But contrary to expectations AT&T is taking a softly-softly approach to the UK with a business plan notable for its restraint and caution.

AT&T will initially focus on the medium to large business sector, building on the virtual private network and data services it already offers with the launch later this year of public long-distance and international services based on international simple resale. This will be followed by multimedia, video-conferencing and freephone services.

It has always been difficult to figure out the exact nature of AT&T's plans for the UK market or, for that matter, the rest of Europe. AT&T has procrastinated and in the past has appeared incapable of fixing a firm strategy for building up a business in the UK.

AT&T is perhaps better known in the UK for high-profile deals that fell through rather than for anything it has actually done. At one point AT&T looked set to storm into the UK market through the acquisition of Mercury Communications, or more recently by investing in Energis, the UK's third

achieving target revenues of \$1bn a year in the UK by the year 2000.

AT&T might have missed some good opportunities in the UK, but in the 15 months since it was awarded a UK telephony licence it has built up a long-distance back-bone network stretching from London to Edinburgh.

In January, AT&T showed that it was capable of forming alliances with alternative UK carriers when it secured an interconnection agreement with the City of London.

**Eden Zoller**



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**Chief executive Mike Grabner joined Energis eight weeks ago from BT**

its customers.

But before Energis can branch out into other new areas it must acquire a higher profile. Grabner was recently told by a customer that the carrier was the "best-kept secret" in the telecommunications industry.

A higher profile will also be useful for the carrier as it hunts for a strategic partner, a key objective according to the National Grid's November flotation document which laid out its plans for Energis.

The Grid said Energis's development was slower than anticipated and that the carrier faced mounting losses. Full-year losses in the year to March 31, 1996 are likely to be considerably higher than the \$52.9m reported in 1994-95.


A timetable of 12-18 months has been set by the Grid, which is thought to want to retain a stake in the carrier, for funding a strategic partner. The preferred match is another telecommunications carrier with an international presence which could bolster the international service offered by Energis to its customers.

The carrier had unsuccessful talks with AT&T early in 1994 but the US international carrier is still a possible partner. Other candidates could include three other international operators - Sprint of the US, Teleglobe of Canada and Australian carrier Telstra, all of whom Energis uses for routing its international calls out of the UK.

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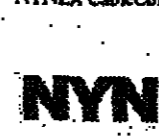
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Radio access: by Kris Szaniawski

## Telephones take to the air

Next week, the UK's first fixed service based on radio technology will be launched

Residential and small business users will next week have the choice of using an innovative radio-based telephone service which is being launched by a Cambridge-based independent start-up company.

Ionica uses digital radio technology to reach its customers rather than the conventional underground cables or overhead wires. It is initially offering its services to customers in the Anglia TV region from March 26 but plans to gradually extend its operation to the rest of the country. This makes Ionica the first national challenger to BT in the local loop, because cable operators have only regional licences.

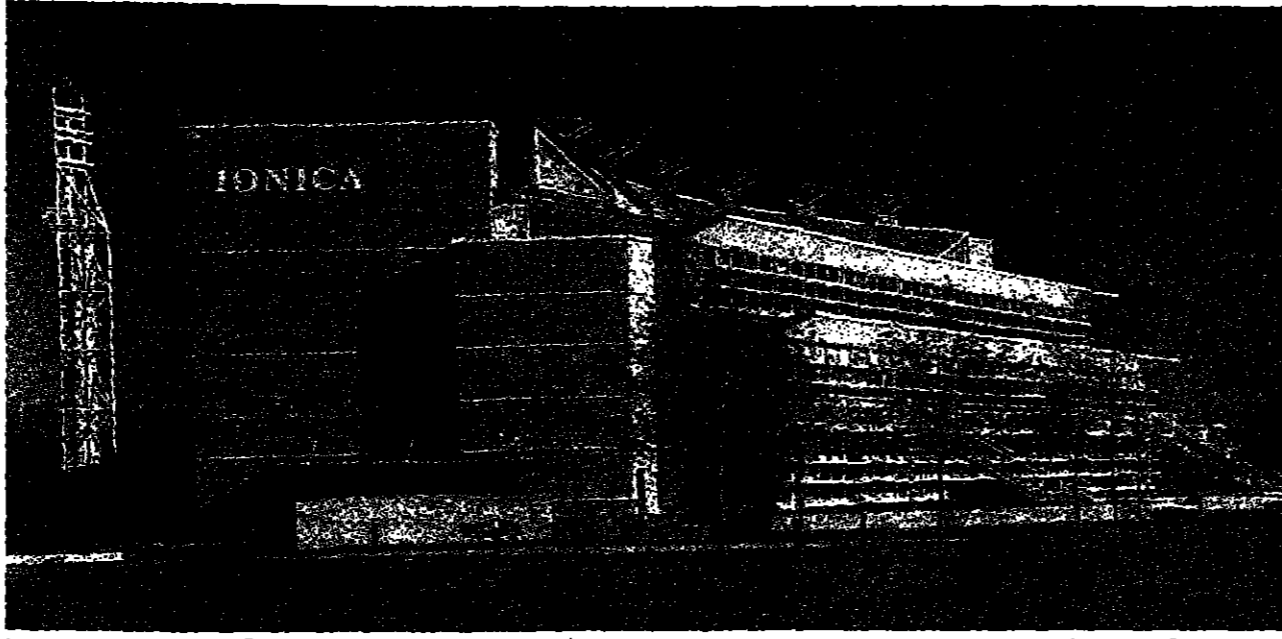
Ionica is the first UK operator to launch a fixed service based on radio technology. Several more such services aimed at residential users and small to medium-sized businesses will follow soon.

Radio technology has already been used internationally as a cost-effective means of introducing competition into newly liberalised developed markets, or to satisfy pent-up demand in developing areas where telephone lines are scarce.

The advantage radio technology has over other methods of operation is that it allows an operator to roll out a network quickly and with relatively little investment. Once a base station is in place, an operator needs only to connect its customers instead of digging up a street to lay cables. Low prices are a big selling point for new operators and radio access technology helps to achieve that.

Nigel Playford, Ionica's chief executive, says the new technology will ensure that the company can compete with BT on price as well as on service. Ionica will address the residential and small business market by using radio to provide the link between existing telephone equipment and Ionica's telephone exchanges.

Ionica claims that its radio-based system will perform like



Ionica, the first UK operator to launch a fixed service based on radio technology, claims that its system will perform like a high-quality fixed service

a high-quality fixed service. The fixed radio access (FRA) technology which it has developed in conjunction with Canadian manufacturer Northern Telecom (Nortel) to operate in the 3.4 GHz range of the spectrum, will deliver speech quality, availability and reliability at least as good or better than conventional wired networks. The FRA technology will support a full range of telecoms services and will have plug-in compatibility with existing telephones and other equipment such as faxes and modems.

The FRA technology specified by Ionica had to be purpose-designed to meet all these requirements and has taken some time to perfect. Although Ionica was awarded its operating licence in February 1995, long, drawn-out technical and customer trials took place before it was in a position to launch a commercial service. It has raised around £150m from leading investors such as Yorkshire Electricity, Telecom Finland, Northern Electric, Robert Fleming Investment Trust and CWB Capital Partners and a public offering in London and New York is likely this year.

Under the terms of the licence the company will have to reach 75 per cent of the population of England and Wales

within four years of beginning its service. The company expects to capture 5 per cent of the market within the areas it serves within five years of starting up. It will not offer a service in Scotland because it has agreed a £22m deal which will provide Scottish Telecom, a wholly-owned subsidiary of Scottish Power, with a licence and with access to its radio spectrum so that it can provide telephone services throughout Scotland.

Ionica will need to attract customers quickly to forestall competition from several other radio-based services due to be launched in the next few years. The first of these competitors will be Liberty Communications and Atlantic Telecommunications, which both also have licences to run a wireless telecommunications service in the 2 GHz to 4 GHz frequency range and expect to launch commercial services in the first half of this year.

Like Ionica, Liberty Communications holds a national operating licence and will be targeting the small business and home-worker markets across the UK.

Atlantic Telecommunications, which is owned by cable television operator Caledonian Media Communications, plans to launch a fixed wireless ser-

vice in the Glasgow and Strathclyde areas this spring. It aims to target high residential spenders and the small to medium-sized business market.

A second wave of services is also expected following the UK government's award in February of five additional radio access operating licences to a wide range of companies, spanning the scale from BT to start-up company RadioTel.

The government intends these new licences to serve different markets but there is bound to be some overlap because all will be concentrating on either the residential or small to medium-sized business markets.

Large businesses in central business districts were the first to benefit from access to more advanced services following the liberalisation of the UK market. The arrival of new radio-based services will make these advanced services available to small and medium-sized businesses as well as to domestic consumers at a reasonable cost.

Three licences have been awarded in the 10 GHz range of the spectrum for the provision of advanced high-bandwidth Integrated Services Digital Network (ISDN) services such as high-speed Internet access, vid-

eo-conferencing, video-security applications and other digital voice and data services. The licences were awarded to Mercury, National Transcommunications Limited (NTL) and a joint bid from Ionica and Scottish Telecom. Commercial services could be launched as early as this year.

Ionica's reason for obtaining this licence, says Nigel Playford, was to complement its 3.4 GHz licence, allowing Ionica to meet demand for digital services requiring bandwidths greater than basic rate ISDN, such as high-speed Internet access and video telephony.

Although the 10 GHz licences are for the provision of more advanced technical services, they, too, will be targeted at the small and medium-sized business markets.

Mobile telephony: by Richard Handford

## Deadline for digital

The operators have already acted to discourage new subscribers to the analogue networks

The government's strategy paper on future use of the Britain's mobile phone spectrum, published at the end of February, set Cellnet and Vodafone a deadline for completion of their transition from analogue to digital technology. The government said it would like to see the two carriers move all their customers on to their more efficient digital networks, based on the GSM standard, by the year 2006, leaving capacity on the analogue networks, based on the Tacs-900 standard, free for the government to re-allocate for other purposes.

Cellnet and Vodafone have already started the task of migrating the 2m customers each has on their analogue networks onto their less-populated digital networks. Cellnet has about 300,000 GSM customers compared to 450,000 customers for Vodafone.

The two cellular operators have already acted to discourage new subscribers joining their analogue networks by making the cost of handsets and tariff packages more attractive on their digital networks. This process, which only really started to take effect in 1995, involved increasing subsidies on digital handsets to make them similar in price, or cheaper, than analogue models. It also meant only introducing new tariffs onto the GSM network and phasing out less popular analogue-only packages. The result is that the majority of new customers joining their networks now head for the GSM service.

The two companies are also persuading existing analogue customers to move over to digital. Initially, they have targeted business users, many of whom joined the analogue network in the years following their launch in 1985. Cellnet and Vodafone only launched their GSM services in the early 1990s and they did not begin promoting them seriously until late in 1994.

Business users represent about 750,000 of the total 2m

users on each of the networks, while the rest are consumers, or low-users, who make fewer calls over the network than business users. It is a higher priority to move these traffic-generating users over to the higher capacity digital network since, according to Vodafone's calculations, a business user uses five times as much capacity as a domestic consumer.

The strategy used by Cellnet and Vodafone's service providers, the direct sales organisations that retail the operators' services, is to approach companies, which might have hundreds of phones on their account, when their existing contracts for analogue phones is due to terminate. These companies are offered an attractive deal to switch over to the digital network which, compared to analogue technology, offers better security and can be used in all European countries.

The reduction in the absolute number of users on the analogue networks, which is likely to happen this year, frees the operators to begin converting analogue to digital capacity. The operators have started this process in several big UK cities since the beginning of the year. "It is very tricky from a radio planning point of view," says Mr Mike Tiplady, Cellnet's technical director. He has to ensure that Cellnet only reduces analogue capacity at a speed that is less than the rate of migration to the GSM network. Otherwise analogue users might perceive a poorer quality of service. Both operators are also building their GSM networks so that coverage on them is equal to the more established analogue networks. Both have so far spent between £450m and £500m on their networks and expect to invest an additional £500m-£600m by 1998. The operators have other tricks for squeezing more capacity out of their GSM networks in the future, such as splitting existing cells (in cellular coverage areas) in two. In addition, Cellnet recently started to test new microcellular equipment, developed by US manufacturer Motorola, which creates extra capacity in congested areas. It was originally thought that the two analogue networks would only have capacity for

750,000 customers between them. The present total of 4m customers was just unthinkable a few years ago. The government's spectrum review also offered some help to the operators by opening up the possibility of allocating Vodafone and Cellnet spare capacity in the 1800MHz part of the spectrum, next to where rival operators Mercury One-2-One and Orange have been allocated frequencies.

Vodafone and Cellnet which currently operate in the 900MHz part of the spectrum, will be allowed to use part of the 1800MHz spectrum in return for developing "new and innovative" services. Both are likely to offer to use the spectrum to improve coverage inside buildings for corporate users. With dual-mode handsets that work at both 900MHz and 1800MHz, customers could have a wireless phone for use in the office as well as a standard cellular to use on the move. The measures mentioned above should mean that by the turn of the century there will be capacity for a much bigger number of cellular subscribers than at present. Currently, Cellnet and Vodafone each have sufficient capacity for about 3.5m users on both their analogue and digital networks. By 2000-2005, they are likely to have capacity for 14m GSM users, leaving the analogue network, which would by this time be winding down, with capacity for 1.5m users. Seasoned industry observers believe neither operator runs a serious risk of running out of capacity. If anything, the operators run a greater risk from losing customers than having insufficient capacity to serve them.

The danger comes from newer operators Mercury One-2-One and Orange, both aware of the more established operators' migration processes, and ready to pounce. Both are attempting to persuade analogue users about to move over to their digital networks, based on the DCS-1800 standard, rather than stay with their existing operators. The fact that half of Orange's new customers are former customers of Cellnet or Vodafone should act as a warning about the real risk of migration.

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## VI UK TELECOMMUNICATIONS MARKET

Technology by Kris Szaniawski

## Numerous fresh opportunities

A telepresence application can provide a fixed link between a remote rural health centre or community hospital and a large teaching hospital

New links between hitherto disparate technologies are creating numerous new business opportunities in telecommunications.

Probably best known is BT's interactive multimedia trial in Colchester which is presently testing the delivery of video-on-demand, teleshopping, telebanking, and other information and education services over both fibre optic and copper cable networks to residential customers. But such classic "information superhighway" multimedia services are only one aspect of new developments in the communications industry.

One only needs to look at work being carried by BT at its research and development facility at Martlesham Heath near Ipswich to get a feel for the way things are going. With more than 3,000 employees, the laboratory complex is the largest concentration of communications, electronics and software specialists in the UK and is at the forefront of UK communications technology R&D.

According to Mr Ian Pearson, at the BT Centre for Human Communications, at Martlesham, certain key themes to future developments can already be identified. Technological developments over the next few years are likely to be characterised firstly by a continuing emphasis on increasing



A working prototype of BT's 'Office on the Arm' worn by BT director and Businesswoman of the Year Patricia Vaz. The console includes a miniature colour screen and mouse pad and voice recognition software

mobility; secondly by a shift from voice communications to visual applications such as videoconferencing, interactive television and other forms of multimedia; and thirdly on controlling machines through speech.

BT's Camnet telepresence system is a clever piece of convergent technology already in production and illustrating some of these characteristics. The system allows a distant expert to look over the shoulder of a technician or medical worker, seeing and hearing what the person on the spot

existing ISDN links and they are now being made commercially available.

Because there is still a one-third of a second coding delay over existing ISDN high-speed data links, a surgeon cannot yet issue commands such as "keep cutting till I say stop". However, once broadband ATM networks become more generally available it will be possible to support real-time video without delays or image degradation.

Once this is in place, more advanced applications such as robotic surgery will become a possibility, with a surgeon wearing virtual reality glasses in one location performing an operation in another.

Advanced videoconferencing techniques also have other uses. BT is using its expertise in video coding skills to develop systems which will allow users to share a computer-generated "virtual workspace", within which they can co-operate at a distance on the same piece of text or design. Other systems under development include a videoconferencing system which for the first time allows real eye contact with the person at the other end of the line.

Another example of converging technologies is the "office on the arm" - a combination of laptop computer, digital cellular phone, mobile link to the Internet and a voice recognition system all squeezed into a wearable package - developed at Martlesham Heath. A working demonstration model already does many of the things it is meant to do.

The technology to make the office on the arm commercially viable is to a large extent already available and new applications, videophone, for

example, will soon become possible.

Some technology issues, such as poor screen resolution and high energy consumption, still need to be sorted out but according to Mr Roger Payne, BT technology integration specialist, a fully-functioning model should be available in four to five years.

One way of sorting out the problem of power-hungry applications, says Mr Payne, might be to transfer some of the intelligence across the network. The office on the arm could be linked over a radio network to a PC back at the main office where most of the intelligence would remain - and where most of the power consumption would take place.

For the office on the arm to be viable it would not necessarily require a high bandwidth ISDN link to the main office from everywhere in the country. For example, the existing digital cellular GSM network could provide narrow-band capabilities nationally but localised high bandwidth ISDN connections could be provided at key points such as railway stations, airports or motorway service stations to permit the transmission of bandwidth-hungry video or data services.

A key difference between the office on the arm and current day laptop will be the absence of a keyboard. At present, a finger pad allows the user to move the cursor around on the screen, but with time, speech recognition software will allow more direct control.

Rapid technological developments are taking place in speech recognition. BT already has a trial corporate directory service that allows users to access telephone numbers by

asking for someone by name. It is also demonstrating a telephone catalogue service that allows users to choose the phone they want by talking directly to the catalogue without any human intervention. These products could be released on the market as early two or three years from now.

Speech recognition and voice synthesis advances are seen as particularly important by Professor Peter Cochrane, BT's head of advanced research, who already has a system in his car that allows him to access e-mail messages by voice. Being able to talk to your phone or television and have them respond to you in kind will be a key advance. It will allow more efficient information management and reduce delays. But most importantly, as far as Cochrane is

concerned, it will make technology more user-friendly. Mr Cochrane points out that people have to wait to adopt new products if they are to be successful, and reducing "technophobia" is an essential ingredient. Talking your way through a telebanking transaction without having to resort to a keyboard is likely to make it a much more acceptable proposition.

This kind of interaction is only one step away from a more advanced form of artificial intelligence. Imagine being able to ask a television or PC to find out about times of aircraft flights - and it will be able to set up an agent at the airport computer to watch out for any delays. Similarly, when your car breaks down, it will automatically send a message to the nearest garage to tell it what has happened.

This may still be a few years away, but more rudimentary programmes are already available which allow e-mail, for example, to be automatically redirected to a different location on a network. Many of these applications may seem to have very little in common with traditional telecommunications, but all are dependent on communications links to support them. The communications network will hold them all together but the applications will be limitless.

The alternative operators are not constrained by legacy issues when it comes to technology and most have optical fibre networks with synchronous digital hierarchy (SDH) capabilities. Some even boast asynchronous transfer mode (ATM) advanced switching capabilities.

The alternative operators most often have a regional focus, and know their local business community well, with standards which BT would find difficult to match.

The comparatively narrow focus of alternative operators, which quite commonly specialise on niche sectors within the business market, means they are also highly skilled in developing tailored applications for a particular customer with pricing structures to suit their requirements. This can range from Lan-to-Lan inter-

connection to total facilities management solutions. An example of this specialist, tailored approach can be seen with many of the contracts won by regional operator Torch Telecom, a joint venture between Yorkshire Electricity and Kingston Communications.

Its first contract involved the provision of high capacity links between two teaching hospitals for the transmission of video images of operations from operating theatres to lecture rooms. Torch does not publish a standard price list for its services because costs can vary quite widely, depending on the solution it puts together for a particular customer.

The alternative operators can be broadly divided into those that are facilities-based and those that base services on international simple resale (ISR). Put very simply, ISR operators provide capacity over a network of predominantly leased lines. In contrast, facilities-based operators have their own switching and transmission capacity, while some have direct links to their ultimate customers and therefore side-step BT's network for the last leg of the loop.

Notable alternative operators in this category include Colt and MFS which both offer services in the crowded London market.

Colt and MFS, which are both US backed, have built metropolitan optical fibre broadband networks from

scratch in London. Both have national public telephone operators licences and are looking to expand services in other metropolitan centres in the UK. They have already established similar operations in other European countries such as Frankfurt.

Colt is also looking to expand services by joining forces with other regional operators, and in October last year it signed an interconnection agreement with Scottish Telecom under which the two carriers will jointly provide services between London and Scotland. Scottish Telecom is an example of a handful of regional operators that started life as the internal telecommunications arm of the UK's regional electricity companies. Another notable operator of this ilk is Norweb Communications in the North West. Such operators have something of a head start in that they can use the existing telecoms infrastructure of their parent companies, and have access to their sales channels, an established customer base, a brand name and market awareness.

The ISR operators in the UK are almost exclusively focused on providing cut price international services. First Telecom, an ISR operator which started services last May, claims it can offer the cheapest calls available to the US of about 10p a minute at certain times.

It reckons that in general it can cut the average international BT or Mercury phone bill by about 20-30 per cent. Demand is such that First Telecom has attracted more than 12,000 subscribers since its launch nine months ago. ISR operators traditionally target business customers with international services, although a growing number are turning their attention to the domestic long-distance market. This goes against the received wisdom which says the UK market cannot generate the volumes of calls which ISR operators need to make the thinnest of margins on domestic long-distance tariffs.

The line-up includes the UK subsidiary of Swedish national carrier Telia, ACC Long Distance, Worldcom and News International's Dial 1602 service. The fact that ISR operators are prepared to tackle the residential sector is a sure sign of confidence in the market. The next six months will see the debut of yet more alternative operators in the UK. AT&T is on the brink of launching its long-awaited UK operation, while wireless local loop operators Ionica and Liberty are also expected to launch services in the coming months.

The dramatic proliferation of alternative operators in the UK since the end of BT and Mercury's monopoly five years ago points to a buoyant, highly competitive market where demand is strong. Customers will benefit from greater choice, flexibility and lower prices. The only danger perhaps is that they might become totally confused.

Other licensed operators by Eden Zoller

## Confidence abounds

The dramatic proliferation of alternative operators points to a buoyant, highly competitive market where demand is strong

A government review of telecommunications policy in 1991 led to the entry of BT and Mercury Communications' duopoly of fixed line domestic services in the UK.

The floodgates were thrown open, and by 1995 some 75 licences had been issued for alternative public telecoms operators. The figure now stands in excess of 150, to say nothing of the growing number of international simple resale operators that provide cut-

price long-distance services. This sounds very impressive and is possibly hard to believe given that most people would be hard-pushed to name an alternative to BT and Mercury. Some might be aware that a growing number of cable television operators offer public voice telephony services. Others might recall some of larger "pure" telephony operators such as long-distance carrier Energis which has made the most visible efforts to draw attention to its services with a television advertising campaign which ran last year. But for most, the vast majority of alternative operators remain an obscure, unknown quantity.

The most obvious reason for this lack of general awareness is that with the exception of the cable television operators, the vast majority of alternative operators in the UK focus exclusively on the business community where the usual method of targeting customers is through a direct sales force. The business community promises the largest rewards for alternative operators. Corporate customers are traditionally high spenders with a large proportion of international calls and a healthy appetite for high-bandwidth, value-added services which produce a higher revenue per subscriber than is available from the residential market.

It is all but impossible for new entrants to compete head-on with BT in the residential market where it has direct links to every home and where prices are already competitive - and becoming more so with a range of special discount packages. Mercury tried to its detriment to mimic BT in the residential market but has shifted its focus to the business sector. Energis now appears to be doing the same.

Clearly the business sector is price-sensitive, but the returns are better and operators do not have to spend millions building up the high-profile brand names required in the consumer market.

The alternative operators are able to undercut BT in the business market partly because they have a compar-

Costs can vary quite widely, depending on the individual solution

connection to total facilities management solutions. An example of this specialist, tailored approach can be seen with many of the contracts won by regional operator Torch Telecom, a joint venture between Yorkshire Electricity and Kingston Communications.

Its first contract involved the provision of high capacity links between two teaching hospitals for the transmission of video images of operations from operating theatres to lecture rooms. Torch does not publish a standard price list for its services because costs can vary quite widely, depending on the solution it puts together for a particular customer.

The alternative operators can be broadly divided into those that are facilities-based and those that base services on international simple resale (ISR). Put very simply, ISR operators provide capacity over a network of predominantly leased lines. In contrast, facilities-based operators have their own switching and transmission capacity, while some have direct links to their ultimate customers and therefore side-step BT's network for the last leg of the loop.

Notable alternative operators in this category include Colt and MFS which both offer services in the crowded London market.

Colt and MFS, which are both US backed, have built metropolitan optical fibre broadband networks from

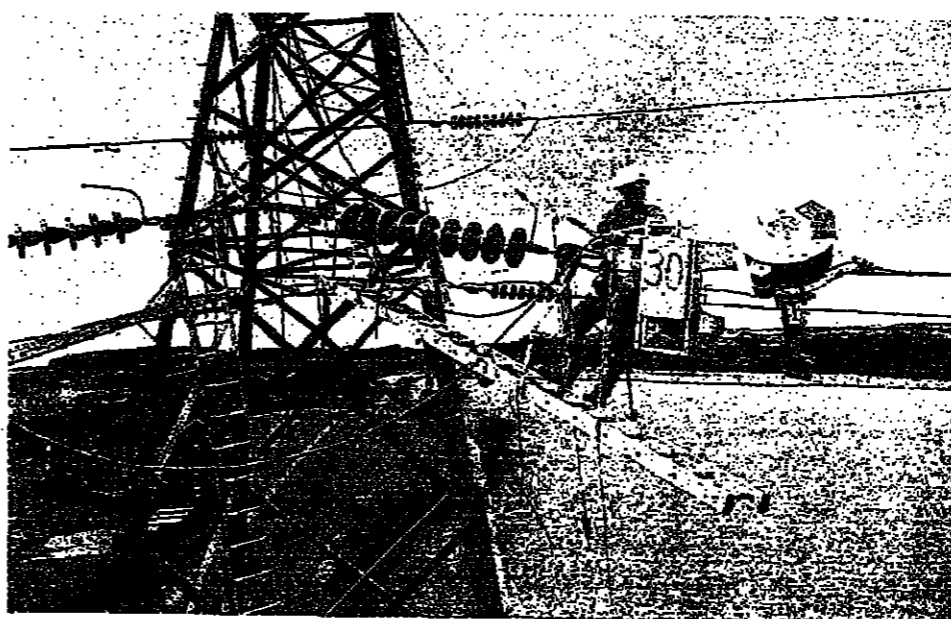
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UK TELECOMMUNICATIONS MARKET VII

The manufacturers by Joia Shillingford

Movers and shakers

Research indicates that the market for digital exchanges in western Europe will be \$7.9bn in 1996, rising to \$8bn in 1999.

Europe will be \$7.9bn in 1996, rising to \$8bn in 1999. The market for cable transmission - the equipment which connects exchanges together - will amount to \$1.9bn this year and in 1999.

broadband, which will provide larger pipes through which voice-data can be sent. "Broadband will require a smaller number of larger exchanges," says Mr Ian Rathmell, an industry analyst at Dataquest.

companies such as Cambridge-based Ionica. Yet UK demand from these operators is small compared with demand from BT and Mercury at the height of their buying cycles.

Providing the equipment for Britain's fixed-wire and mobile telephony infrastructure is a multi-billion pound industry. But who are the manufacturers and how is their profitability affected by the industry's buying cycles?

Local loop equipment, which connects the local subscriber to the local exchange, will be worth \$600m in 1996, rising to between \$600m and \$700m in 1999.

Competition in the market for exchanges increased significantly with telecoms privatisation in the 1980s and 1990s, reducing prices. Manufacturers used to make big profits on telephone exchanges, but now make profits on the software that drives them.

"By and large, the UK buying cycle is over," says Mr Jim Ross, telecoms analyst at ABN Amro Heere Geveit.

The market for fixed telephony equipment tends to be dominated by switching equipment, such as digital exchanges for routing calls. Usually, whoever supplies the switching equipment, also supplies the associated electronics.

Leading suppliers of switching equipment to the mobile network operators include Ericsson, Siemens and Nokia. "In the market for mobile phone handsets, Nokia and Motorola are battling it out for first place," according to Mr

This means they make their money towards the end of the network upgrading process, because software is a late-cycle purchase. The software for

Demand is more buoyant in the cellular network market. In the 1980s, equipment was needed for analogue mobile networks: Tacs (Total Access Communications System) in the UK and parts of Europe; NMT 450 and NMT 900 in the Nordic countries; and Amps (Advanced Mobile Phone System) in the US.

It also offers SDH (Synchronous Digital Hierarchy), a transmission technique for non-voice traffic such as video, data and multimedia. "Demand for SDH is growing strongly," according to Mr Ian Rathmell, an industry analyst at Dataquest.

Dean Eyers, associate director of Dataquest. "Then come" Ericsson and NEC. Japanese companies such as NEC, Matsushita and Sony are also increasingly successful in the market for mobile phone handsets. Mobile phones are manufactured all over the world, although the majority are made in the Far East. Components (such as sub-assemblies) for mobiles are made all over the world by a wide variety of suppliers.

exchanges is typically proprietary rather than "open". It enables telecoms operators (telcos) to offer value-added services, such as voice mail, or better network management. Telephone companies mainly buy software from telecoms equipment manufacturers. Or they buy exchanges with the software they want built in.

Now everyone is moving to some form of digital network - typically GSM (Global System for Mobile), or PCN (Personal Communications Network), a variant of GSM. This has led to a new investment drive.

Cable television companies offering telephone services over their networks tend to use different suppliers from BT and Mercury, such as Nokia of Finland. But they do use GPT equipment. The cabling for both standard and cable TV telephony is supplied by companies such as BICC, Pirelli and Alcatel Cable as well as some smaller suppliers.

Software sales are critical to the profitability of telecoms equipment suppliers because in the UK the move to digital exchanges is largely complete. For example, more than 70 per cent of BT lines are digital. Some large electromechanical TXE-4 exchanges are still being upgraded but this process will be finished shortly.

Demand for telecoms equipment is, however, coming from newer network operators such as MFS, Colt, AT&T (which recently entered the UK telephony market), cable TV companies, and fixed-radio-access

Mr Eyers estimates that the UK market for new cellular network equipment is worth \$2.5bn excluding aerials. PCN operator Orange finishes its UK network by next year. And within two years British PCN operator Mercury One-2-One will also have done so. By this time, the digital networks of Vodafone and Cellnet (the other UK analogue cellular and GSM operator) should be complete.

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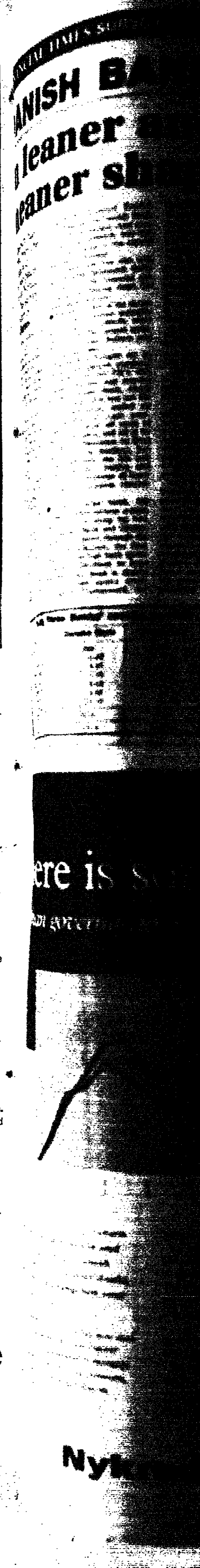
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# DANISH BANKING AND FINANCE

## In leaner and meaner shape

The industry has emerged from the recession and seems well-placed to take on Nordic rivals. This survey was written by **Hilary Barnes**

The Danish banking and finance industry has emerged from the economic and financial turbulence which swept through the Nordic countries in the early 1990s in meaner and leaner shape. Earnings in 1995 were better than at any time for the past 10 years.

However, Danish bankers insistently point out that the crisis in Denmark was not on the same scale as it was in the other Nordic countries. No major bank collapsed. No state money or promise of state money was necessary to prevent collapse, although many smaller and some medium-sized institutions disappeared, most of them to be rescued by stronger colleagues within the industry.

In the meantime, profound changes have taken place in the financial services industry as a whole. There has been a big shake-out in insurance. The big banks have emerged as important participants in the mortgage credit and insurance markets, turning them, accord-

ing to Mr Thorleif Krarup, chairman of the Danish Bankers' Association and chief executive of Unidanmark, into true universal banks in the central European tradition.

The past year has also seen several other landmark developments in the financial services sector. Among these, the most important are:

- The completion of the shake-out in the insurance industry, which began in 1992-93, when the country's two largest insurers at the time, Baltica and Hafnia, collapsed.

Hafnia was bought up by Codan, the Danish company controlled by the UK's Sun Alliance. Baltica was rescued by Den Danske Bank, which also, although this was not the bank's intention, ended up owning Baltica. Last year, however, it sold off most of Baltica's accident and all of its commercial insurance to Tryg (renamed Tryg Baltica), but Danske retained the life and pension division, Danica, and the accident business of Danica's life and pension customers.

• A third large bank, big enough to offer serious competition to the existing big two, Den Danske Bank and Unidanmark, was created through the merger of Bikuben, the flagship of the savings bank movement, and GiroBank to form BG Bank. BG Bank is closely allied through equity cross-holdings to Topdanmark, the

insurance company, and Nykredit, the mortgage credit institution.

• The two biggest banks in Denmark are setting up branches in other Nordic countries, defining the Nordic area as part of their future "domestic" market. This follows the example of the other large Nordic banks, which are all invading each other's patches.

• A major reform of the Copenhagen Stock Exchange, a consequence of the implementation of the EU's Investment Services Directive, was put into place at the beginning of this year.

The recovery in the fortunes of the banking industry - paralleled in the mortgage credit and insurance industry as well - has been sustained by the recovery in the Danish economy itself. After six years of near-stagnation, a rapid improvement began in mid-1993, and the growth in real gross domestic product shot to 4.4 per cent in 1994, followed by about 3.5 per cent in 1995.

As a recent OECD report on Denmark noted, the recovery is more soundly based this time than was the 1990s recovery. Inflation has remained low at only about 2 per cent in 1995; the current account of the balance of payments is in comfortable surplus; and the general government budget deficit last year, at DKr17bn, was about 1.5 per cent of GDP, according to the most recent



The two big Danish banks - Den Danske Bank is the largest - have entered the mortgage credit and insurance markets, becoming universal banks in the European tradition. Tony Andrews

estimates by the government. The krone, which participates in the European exchange rate mechanism, was battered by the events which led to the collapse of the ERM in 1993, but the exchange rate has again been stabilised against the D-mark, and last year there was a *de facto* appreciation of the trade-weighted exchange rate by some 4 per cent. Interest rates fell sharply through 1995, in line with developments elsewhere in Europe, and this spring the discount rate has been lowered to 3.75 per cent, its lowest since 1946.

Unfortunately for the banks, falling interest rates have not so far done much for bank lending. However, after declining for several years, lending rose by about 3.6 per cent in 1995. That the banks emerged

from last year with their earnings much enhanced, despite weak demand for credit, was due primarily to two factors: gains in the value of their portfolio of bonds and shares and a further decline in bad loss provisions from the exceptionally high levels reached in 1992-93.

Under Danish accounting law, a change in the value of a securities portfolio - whether a gain or a loss - is entered into the profit and loss account fully in the year in which it takes place. (The same goes for all property owned by the banks, which must be booked at the estimated market price at the end of each year.) For this reason, the bottom line figures have a tendency to show extreme variations in accordance with the state of the

bond and share markets. The banks have, on the other hand, nearly all reported lower net financial income (excluding the valuation gains) in 1995, which is a cause of concern to the banks as well as to Mr Eigel Molgaard, the head of the Finance Industry Supervisory Authority.

"The banks are not earning as much as they should from their basic operations, and this is a problem," he says. Denmark is a many-banked country, with around 150 banks, savings banks and co-operative banks, most of them very small. Competition is keen, and has been driven by the establishment of an array of niche banks, including some which offer simplified services and low costs. Traditional banks are also facing competition from banks established by

the insurance companies and from international competition, including Nordic rivals.

Margins on business with larger companies are now particularly thin, the banks complain. Small, one-town banks, on the other hand, whose customers are mainly small businesses and private individuals, continue to do well and are gaining market share. The biggest banks are meeting the challenge by diversifying into mortgage credit and insurance services, a strategy which was commended in a recent report on the Danish banking industry by Moody's, the rating agency.

On the costs side, the banking sector shed 7,000 employees between 1989 and 1995. The number of bank branches declined from 3,250 to 2,225, and the number of customers

per bank branch rose from 1,580 to 2,350, according to figures supplied by Unidanmark. The main force for change was the 1990 merger of the six largest banks into today's two largest banks, Danske and Unidanmark. This set the scene for a rapid rationalisation of the branch structure, and is also reflected in the market share of the two largest banks, which is now 64 per cent compared with 28 per cent in 1988.

The 1989 mergers and subsequent developments have left the large banks in a strong position, both domestically and by comparison with their international counterparts. A study of the ratio of costs to income among the largest European banks by UBS puts the Danish banks at the top end of the list, with only the Swedish banks ahead of them.

Figures in DKr:bn	Danske Bank	Unidanmark	BG Bank
Assets	390	255	149
Profit on financial operations	12.07	10.28	7.04
Operating expenses	5.81	5.81	4.22
Loss provisions	1.25	1.24	0.73
Operating profit	6.03	2.95	1.88
Net profit	3.83	2.10	1.68
Equity capital	23.10	15.10	6.10
Return on equity (%)	27.3	20.8	32.5
Employees	11,514	10,503	6,377

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Elmøse Castle - another Danish attraction.







IV DANISH BANKING AND FINANCE

Stock Exchange reform

# Surviving in the free world

With its monopoly status removed, the exchange must offer competitive services

The legal monopoly which protected the Copenhagen Stock Exchange was ended on January 1 this year, and on May 1 the CSE will start life as a private company.

With its monopoly status removed, the CSE will have to survive on its ability to offer competitive services, "and we shall survive; there's no doubt about that," says Mr Hans Ejvind Hansen, chairman of the new CSE, who has a long career in the finance services industry.

The reform of the CSE is a consequence of the EU's Investment Services Directive, which Denmark has been one of the first countries to implement fully through changes in domestic legislation. The privatised CSE will be owned by traders, with 80 per cent of the capital. Issuers and investor representatives will be the other shareholders.

The Danish Securities Centre, which has provided a paperless, electronic clearing and settlements system for bonds since 1982 (and for shares since 1986), may also be privatised, but a decision has not been taken yet. In principle, both institutions could face competition from new exchanges, though no domestic challengers have flagged any such intentions to date.

One result of the changes is that foreign securities houses can become remote members of the CSE, a development welcomed by the Danes. "In Denmark, we have no hesitation

whatsoever about remote membership," says Mr Hansen. "We want remote members. It will help to strengthen trade in the most liquid securities, shares as well as bonds. We shall actively seek to attract remote members."

The CSE - and any competing market places which are established - will be under the supervisory control of a new Securities Board, chaired by Mr Erik Hoffmeyer, governor of the central bank from 1965 to 1996. The board's secretariat will be provided by the Finance Industry Supervisory Authority.

The outlook for the Danish market varies in some degree with the type of securities. Denmark has a very big bond market, by far the largest of any country if measured on a per capita basis, which is usually ranked at ninth in the world by turnover. This reflects the 200-year-old Danish system of mortgage credit, by which property purchases have been (and still are) financed almost exclusively by bonds issued by mortgage credit institutions.

The market in government debt is relatively new. It developed in the 1970s when the first and second oil price shocks sent the state budget heavily into deficit. "For the large, liquid benchmark bonds, whether mortgage credit or treasury issue, we shall face competition from exchanges as well as from proprietary trading systems, and this will probably also be the case for the 10 most liquid equities," says Mr Hansen.

"To stay competitive, we shall have to ensure that we can compete through the efficiency of the system, through transparency and price," he says. The challenge will be

especially tough if and when Ecu Phase 3, with a common currency, is implemented.

Denmark has an opt-out from Phase 3 under the terms on which it ratified the Maastricht treaty, but it is widely expected that the state will nevertheless issue Eurobonds. As there will be little difference between these and other Euro treasury bonds, there will be no special incentive for trade them via the CSE.

Mr Hansen argues that it is important to keep as much trade in Copenhagen as possible.

Mr Carsten Koch, the Social Democratic party's minister for taxation, told a meeting of the Association of Danish Shareholders this month that he did not completely rule out the suspension of this tax, but he did not make any promises, either.

There are other taxes which hinder the development of the market, of which the tax on capital gains when listed shares are sold, is one. Until 1993, there was no capital gains tax on shares held for over three years. Now, capital gains are taxed fully at income tax rates unless the total value of the shares held by a single person or a married couple is under DKK100,000. There is no deduction for losses on other shares in the portfolio.

This tax has virtually killed the market for individual investment in equities through pension savings accounts, administered by the banks or collectively through pension funds and life assurance companies, are not subject to the gains tax, and neither are they subject to another one of Denmark's killer taxes - the tax on real interest yields.

The latter tax, introduced in 1983, places a ceiling of 3 per cent on the after-inflation real

yield which pension funds and other institutions may earn on securities investments; any yield in excess of a real 3 per cent goes to the exchequer.

As the equity investments in pension savings accounts are exempted, they are favoured.

Other problems hindering the development of a more lively equities market are the fact there are very few large companies, by international standards, listed on the CSE; that many of these companies are controlled by foundations holding stock with preferential voting rights, which means among other things that the companies are not exposed to hostile takeover bids; and that the market is dominated by institutional investors, which invest for the long haul and put the share trade indicator permanently on "hold".

The tax regime is partly responsible for the serious problems of the Copenhagen derivatives market, according to Mr Tryge Vorstrup Rasmussen, president of the Futop Clearing Centre. Turnover in the market was so low in 1995 that its commercial justification was in doubt. Turnover has improved this year, but not yet to a satisfactory level.

The turnover tax is one problem, but so is the real interest tax as administered. It applies to yields on derivatives, a factor in keeping the Danish institutions out of the market. Other factors are the conservatism of the institutions, which was not helped by the Barings collapse.

In the meantime, Mr Rasmussen plans to involve the domestic institutions to generate a larger market. "We need them to get liquidity, and we need more liquidity to make the market attractive to foreigners," he says.



Copenhagen's old stock exchange  
Tony Anderson

The big insurers

## Measure of independence

The two main companies differ, but they have important things in common

When Codan, the insurance company controlled by the UK's Sun Alliance, acquired Hafnia, then the country's second largest insurer, in 1993, it took on board a company which was twice its own size.

"It was a big mouthful," says Mr Peter Zobel, the chief executive, whose family founded the company. He is the third generation to be in control.

For a year or so, Codan was the country's biggest accident insurance company, but it was knocked from that perch last year when Tryg acquired most of the assets of Baltica (changing its name to Tryg-Baltica) from Den Danske Bank. Tryg-Baltica's accident insurance premium income last year was DKK5.05bn, compared with Codan's DKK3.7bn; total group premium income was DKK6.1bn in Tryg to DKK6.4bn at Codan.

Mr Zobel is sanguine about Codan's future as a company which does not have an alliance with a large bank. "It's a challenge," he says, but he does not believe that the advantages are all on the side of the insurance companies which do have alliances.

Curiously enough, Danica, with the support of its owner, Den Danske Bank, has adopted a business strategy which suggests that it may agree with Mr Zobel, though it perplexes some of Danske's competitors. Baltica landed in Danske's lap in 1992-93, when Danske was the only financial services company with the strength to prevent Baltica from going

into Danica's Life and pension business.

Last year Danske sold off the bulk of Baltica's accident business to Tryg, leaving Danica with the accident business of Danica's Life and pension customers. Danica and Danske have agreed, however, that Danica should function independently of the bank.

Danica does not market its policies through Danske's branches, with the exception of company pension policies. "We are in competition with Danske's own insurance subsidiaries, Danske Phoenix, and Danske Life, and our own bank, Danica Bank, is a full-service bank in competition with Danske," says Mr Erik Bonnerup, Danica's chief executive.

"We have our own sales and our own products. We are quite independent and we think that it is best if we each sell through our own channels. As a group, this means we do business through two independent channels and in the end we think this will be to our advantage," says Mr Bonnerup.

Codan's position is, of course, different, but Mr Zobel thinks the banks' advantage as a sales canal will decline because the advance of electronic banking will gradually reduce the number of branches and weaken the importance of face-to-face contacts. He thinks that customers will think twice about putting all their eggs in one basket. They need independent advice and "will realise that it is best to have your insurance with an insurance company and your overdraft with a bank, and not get the two mixed up".

But the development of universal banks makes it all the more important for independent groups such as Codan to develop their own distribution channels and customer services, he emphasises. Direct marketing by tele-marketing, television advertising, and a 24-hour telephone service for accident insurance customers are areas in which Codan is making its main efforts.

## Due Diligence



Successful investment banking requires an organisation committed to providing a consistent and professional standard of banking service. As a major Nordic banking group, Den Danske Bank has considerable placing power and holds a leading position in the Nordic equity and fixed-income capital markets.

The Investment Banking division of Den Danske Bank has a track record of close collaboration with clients to implement their business strategies - analysing alternative procedures and their implications, preparing valuations, arranging public offerings and private placements and assisting in mergers and acquisitions negotiations.

The bank upholds the traditional values of the banking industry - probity, due diligence, professionalism and flexibility - and, during a highly sensitive process, confidentiality has top priority at all times in order to maintain market confidence.

Through its position as one of the leading investment banks in the Nordic region, Den Danske Bank can provide a substantial level of support and the services of an experienced, well-established organisation.

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## They have remained aloof from alliances with banks

control of things now, although the result is still not satisfactory," says Mr Zobel. He aims to reduce the combined ratio to 102, which means that both costs and indemnities have to come down considerably from their present levels.

Mr Zobel is sanguine about Codan's future as a company which does not have an alliance with a large bank. "It's a challenge," he says, but he does not believe that the advantages are all on the side of the insurance companies which do have alliances.

Curiously enough, Danica, with the support of its owner, Den Danske Bank, has adopted a business strategy which suggests that it may agree with Mr Zobel, though it perplexes some of Danske's competitors. Baltica landed in Danske's lap in 1992-93, when Danske was the only financial services company with the strength to prevent Baltica from going

## Mortgage credit institutions

### Unravelling the mystery

Though they have taken market share from the banks, the latter have now struck back

The Danish bond-issuing mortgage credit institutions have always been something of a mystery to the outside world. They are owned by their customers, the borrowers, as a kind of mutual fund, and the bonds they issue are not like any that international investors are used to dealing with.

Even the international rating agencies were so perplexed that they did not know how to rate the Danish mortgage institutions, though they are among the biggest mortgage issuing businesses in Europe. The groups are still owned by the borrowers, but the operational parts of the groups have been incorporated as joint stock companies. They are now rated for short-term credit purposes.

Soon, probably this year, they are hoping that they will receive ratings for long-term debt, which should make their bonds more attractive to international investors. Over the past few years the mortgage credit institutions have taken a significant market share from the banks, with the two biggest banks striking back by setting up their own mortgage credit subsidiaries.

Changes in legislation are the background to this development. Until the beginning of the 1990s, the mortgage credit

(figures in DKK bn)	Big Three Mortgage Credit companies' 1995 results		
	Realkredit Danmark	Nykredit	BFFirendt
Profit from financial operations	3.74	4.67	1.23
Expenses	0.84	1.14	0.42
Provisions, depreciation	0.44	0.55	0.18
Operating profit	2.46	2.99	0.65
Net profit	2.15	1.86	0.65
Assets	334	398	133
- of which, mortgage loans	298	332	116

institutions could provide only earmarked loans - to finance the purchase of a property or an improvement to a property.

Today, loans can be issued without regard to the purpose for which the money is to be used, although the loans must be safely secured in the property. The consequence of the change was that householders in large numbers have converted bank debt into mortgage credit debt, which is considerably cheaper.

The result shows up in central bank credit statistics. From the end of 1992 to the end of 1995, bank advances fell by about DKK60bn to DKK490bn. Mortgage credit lending increased by DKK75bn to DKK784bn.

Meanwhile, the two big mortgage institutions, Nykredit and Realkredit Danmark, are adopting completely different strategies in the new, freer world in which they find themselves. Nykredit is at the centre of a web of alliances with BG Bank and two other regional banks and with Topdanmark, the insurance company.

RD has no plans for similar

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